

UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934.  
For the fiscal year ended December 30, 2023

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934.  
For the transition period from to

Commission File Number 001-07882



ADVANCED MICRO DEVICES, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

94-1692300

(I.R.S. Employer Identification No.)

2485 Augustine Drive  
Santa Clara, California 95054

(Address of principal executive offices)(Zip Code)

(408) 749-4000

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

(Title of each class)  
Common Stock, \$0.01 par value per share

(Trading symbol)  
AMD

(Name of each exchange on which registered)  
The NASDAQ Global Select Market

Securities registered pursuant to Section 12(g) of the Act:

None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes  No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes  No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files): Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer  Accelerated filer  Non-accelerated filer  Smaller reporting company  Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C.7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the registrant is a shell company (as defined by Rule 12b-2 of the Exchange Act). Yes  No

As of June 30, 2023, the aggregate market value of the registrant's common stock held by non-affiliates of the registrant was approximately \$182.9 billion based on the reported closing sale price of \$113.91 per share as reported on The NASDAQ Global Select Market (NASDAQ) on June 30, 2023, which was the last business day of the registrant's most recently completed second fiscal quarter.

Indicate the number of shares outstanding of each of the registrant's classes of common stock, as of the latest practicable date: 1,615,786,841 shares of common stock, \$0.01 par value per share, as of January 25, 2024.

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**DOCUMENTS INCORPORATED BY REFERENCE**

Portions of the registrant's proxy statement for the 2024 Annual Meeting of Stockholders (2024 Proxy Statement) are incorporated into Part III hereof. The 2024 Proxy Statement will be filed with the U.S. Securities and Exchange Commission within 120 days after the registrant's fiscal year ended December 30, 2023.

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## PART I

### ITEM 1. BUSINESS

#### Cautionary Statement Regarding Forward-Looking Statements

*The statements in this report include forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements are based on current expectations and beliefs and involve numerous risks and uncertainties that could cause actual results to differ materially from expectations. These forward-looking statements speak only as of the date hereof or as of the dates indicated in the statements and should not be relied upon as predictions of future events, as we cannot assure you that the events or circumstances reflected in these statements will be achieved or will occur. You can identify forward-looking statements by the use of forward-looking terminology including “believes,” “expects,” “may,” “will,” “should,” “seeks,” “intends,” “plans,” “pro forma,” “estimates,” “anticipates,” or the negative of these words and phrases, other variations of these words and phrases or comparable terminology. The forward-looking statements relate to, among other things: possible impact of future accounting rules on AMD’s consolidated financial statements; demand for AMD’s products; AMD’s strategy and expected benefits; the growth, change and competitive landscape of the markets in which AMD participates; international sales will continue to be a significant portion of total sales in the foreseeable future; that AMD’s cash, cash equivalents and short-term investment balances together with the availability under that certain revolving credit facility (the Revolving Credit Agreement) made available to AMD and certain of its subsidiaries, our commercial paper program, and our cash flows from operations will be sufficient to fund AMD’s operations including capital expenditures and purchase commitments over the next 12 months and beyond; AMD’s ability to obtain sufficient external financing on favorable terms, or at all; AMD’s expectation that based on management’s current knowledge, the potential liability related to AMD’s current litigation will not have a material adverse effect on its financial position, results of operation or cash flows; anticipated ongoing and increased costs related to enhancing and implementing information security controls; all unbilled accounts receivables are expected to be billed and collected within 12 months; revenue allocated to remaining performance obligations that are unsatisfied which will be recognized in the next 12 months; a small number of customers will continue to account for a substantial part of AMD’s revenue in the future; the expected implications from the development of the legal and regulatory environment relating to emerging technologies such as AI; AMD’s expectation that it will not pay dividends in the near future; AMD’s ability to achieve its corporate responsibility initiatives; expected future AI technology trends and developments. For a discussion of the factors that could cause actual results to differ materially from the forward-looking statements, see “Part I, Item 1A-Risk Factors” and the “Financial Condition” section set forth in “Part II, Item 7-Management’s Discussion and Analysis of Financial Condition and Results of Operations,” or MD&A, and such other risks and uncertainties as set forth below in this report or detailed in our other Securities and Exchange Commission (SEC) reports and filings. We assume no obligation to update forward-looking statements.*

*Additionally, we make certain voluntary disclosures in this report and on our website, which are informed by various standards and frameworks (including standards for the measurement of underlying data), and the interests of various stakeholders. As such, these voluntary disclosures may not necessarily be “material” under the federal securities laws for SEC reporting purposes. Furthermore, much of this information is subject to methodological considerations or information, including from third-parties, that is still evolving and subject to change, and which AMD does not independently verify. For example, our disclosures based on any standards may change due to revisions in framework requirements, availability of information, changes in our business or applicable government policies, or other factors, some of which may be beyond our control.*

References in this Annual Report on Form 10-K to “AMD,” “we,” “us,” “management,” “our” or the “Company” mean Advanced Micro Devices, Inc. and our consolidated subsidiaries.

#### Overview

We are a global semiconductor company primarily offering:

- server microprocessors (CPUs), graphics processing units (GPUs), accelerated processing units (APUs), data processing units (DPUs), Field Programmable Gate Arrays (FPGAs), Smart Network Interface Cards (SmartNICs), Artificial Intelligence (AI) accelerators and Adaptive System-on-Chip (SoC) products for data centers;

- CPUs, APUs and chipsets for desktop, notebook, and handheld personal computers;
- discrete GPUs, and semi-custom SoC products and development services; and
- embedded CPUs, GPUs, APUs, FPGAs, System on Modules (SOMs), and Adaptive SoC products.

From time to time, we may also sell or license portions of our intellectual property (IP) portfolio.

#### **Additional Information**

AMD was incorporated under the laws of Delaware on May 1, 1969 and became a publicly held company in 1972. Our common stock is currently listed on The NASDAQ Global Select Market (NASDAQ) under the symbol "AMD". Our mailing address and executive offices are located at 2485 Augustine Drive, Santa Clara, California 95054, and our telephone number is (408) 749-4000. For financial information about geographic areas and for segment information with respect to revenues and operating results, refer to the information set forth in Note 4 of our consolidated financial statements. We use a 52- or 53-week fiscal year ending on the last Saturday in December. References in this report to 2023, 2022 and 2021 refer to the fiscal year unless explicitly stated otherwise.

AMD, the AMD Arrow logo, AMD CDNA, AMD Instinct, RDNA, Alveo, Artix, Athlon, CoolRunner, EPYC, FidelityFX, FirePro, FreeSync, Geode, Infinity Fabric, Kinex, Kria, Pensando, Radeon, ROCm, Ryzen, Spartan, Threadripper, UltraScale, UltraScale+, V-Cache, Versal, Virtex, Vitis, Vivado, Xilinx, XDNA, Zynq and combinations thereof are trademarks of Advanced Micro Devices, Inc.

Microsoft, Windows, DirectX and Xbox One are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. PCIe is a registered trademark of PCI-SIG Corporation. Linux is the registered trademark of Linus Torvalds in the United States and/or other countries. PlayStation is a registered trademark or trademark of Sony Interactive Entertainment, Inc. Arm is a registered trademark of ARM Limited (or its subsidiaries) in the United States and/or other countries. Vulkan and the Vulkan logo are registered trademarks of Khronos Group Inc. Steam Deck and the Steam Deck logo are trademarks and/or registered trademarks of Valve Corporation in the United States and/or other countries.

Other names are for informational purposes only and are used to identify companies and products and may be trademarks of their respective owners.

#### **Website Access to Our SEC Filings and Corporate Governance Documents**

On the Investor Relations pages of our website, <http://ir.amd.com>, we post links to our filings with the SEC, our Principles of Corporate Governance, our Code of Ethics for our executive officers, all other senior finance executives and certain representatives from legal and internal audit, our Worldwide Standards of Business Conduct, which applies to our Board of Directors and all of our employees, and the charters of the committees of our Board of Directors. Our filings with the SEC are posted as soon as reasonably practical after they are electronically filed with, or furnished to, the SEC. The SEC website, [www.sec.gov](http://www.sec.gov), contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. You can also obtain copies of these documents by writing to us at: Corporate Secretary, AMD, 2485 Augustine Drive, Santa Clara, California 95054, or emailing us at: [Corporate.Secretary@amd.com](mailto:Corporate.Secretary@amd.com). All of these documents and filings are available free of charge.

If we make substantive amendments to our Code of Ethics or grant any waiver, including any implicit waiver, to our principal executive officer, principal financial officer, principal accounting officer, controller or persons performing similar functions, we intend to disclose the nature of such amendment or waiver on our website.

The information contained on our website is not incorporated by reference in, or considered to be a part of, this report.

#### **Our Industry**

We are a global semiconductor company. Semiconductors are components used in a variety of electronic products and systems. An integrated circuit (IC) is a semiconductor device that consists of many interconnected transistors on a single chip. Since the invention of the transistor in 1948, improvements in IC process and design technologies have led to the development of smaller, more complex and more reliable ICs at a lower cost-per-function.

## Our Strategy

AMD drives innovation through high-performance and adaptive computing technology, software and product leadership. Our strategy is to create and deliver the world's leading high-performance and adaptive computing products across a diverse set of customer markets including data center, client, gaming and embedded. Our strategy is focused on five strategic pillars: extend leadership in foundational technology and IP, provide competitive software, tools and open-source enablement, re-use core technology across platforms to achieve economies of scale, build effective ecosystems with disciplined partnerships, and drive customer-centric go-to-market that leverages all of AMD's capabilities.

With our high-performance product portfolios, we deliver solutions that are differentiated at the chip level, such as our semi-custom SoCs, Adaptive SoCs, and APUs, and at the platform level, such as in our customers' client computing devices, embedded platforms and servers. We offer a deep portfolio of data center computing solutions including CPUs, GPUs, DPUs, SmartNICs, FPGAs, AI accelerators and Adaptive SoCs to meet the vast computing performance requirements of today's data centers, supercomputers, AI and Machine Learning (ML) data center environments and cloud environments. AMD is a leader in adaptive and embedded computing, CPUs, APUs, FPGAs, SOMs and Adaptive SoCs for a variety of markets, including health care, automotive, industrial, storage and networking. We drive innovation with our line-up of CPUs, APUs and chipsets for desktop, notebook, commercial and handheld PCs to bring performance, efficiency and modern security features to gamers, creators, consumers and enterprises. Our GPUs, including discrete GPUs, semi-custom SoC products and development services, work together with software to power immersive gaming experiences for personal PCs, handheld PCs, the latest game consoles and cloud gaming services.

We believe that AI capabilities are central to products and solutions across our markets and we have a broad technology roadmap and products targeting AI training and inference spanning cloud, edge and intelligent endpoints. We offer products that include capabilities to support AI deployment and we expect this part of our business to grow. Our AI product portfolio caters to customers across strategic markets, from data center to enterprise to client. We achieve this through our family of CPUs, GPUs, FPGAs, and Adaptive SoCs. With the acquisitions of Mipsology SAS and Nod, Inc. in 2023, we expanded our AI software capabilities to accelerate our AI growth strategy centered on an open software ecosystem to help lower the barriers of entry for customers through developer tools, libraries and models.

We develop world-class software platforms that are used to enable our high-performance products. Our software platforms include development tools, compilers, and drivers for our CPUs, APUs, GPUs and FPGAs. We work closely with our customers to define and develop customized solutions to precisely match their requirements. We enable this by combining our broad portfolio of high-performance IP with our leadership design and packaging to deliver world-class customized solutions to our customers. We invest in innovative technology and solutions such as our custom-ready chiplet platform and AMD Infinity Architecture to maintain our leadership position as a custom-design silicon provider of choice.

Our four reportable segments are:

- the Data Center segment, which primarily includes server CPUs, GPUs, APUs, DPUs, FPGAs, SmartNICs, AI accelerators and Adaptive SoC products for data centers;
- the Client segment, which primarily includes CPUs, APUs, and chipsets for desktop, notebook and handheld personal computers;
- the Gaming segment, which primarily includes discrete GPUs, semi-custom SoC products and development services; and
- the Embedded segment, which primarily includes embedded CPUs, GPUs, APUs, FPGAs, SOMs, and Adaptive SoC products.

In addition to these reportable segments, we have an All Other category, which is not a reportable segment.

## Data Center Segment

### Data Center Market

The Data Center segment primarily includes server-class CPUs, GPUs, AI accelerators, DPUs, FPGAs, SmartNICs, and Adaptive SoC products. We leverage our technology to address the computational, visual data processing and AI workload acceleration needs in the data center market. Modern data centers require high performance, energy efficient, scalable and adaptable compute engines to meet the demand driven by the growing amount of data that needs to be stored, accessed, analyzed and managed. Different combinations of CPUs, GPUs, DPUs, FPGAs, SmartNICs, and Adaptive SoCs enable the optimization of performance and power for a diverse set of workloads.

### Data Center Products

**Server CPUs.** Our CPUs for server platforms currently include the AMD EPYC™ Series processors – AMD EPYC 9004 Series, AMD EPYC 8004 Series, AMD EPYC 7003 Series and AMD EPYC 7002 Series. Our 4<sup>th</sup> Gen AMD EPYC 9004 Series processors are built on the “Zen 4” 5 nanometer (nm) process node and re designed to deliver leadership performance and energy efficiency across a range of market segments and workloads. The AMD EPYC 97x4, cloud native-optimized data center CPUs, formerly codenamed “Bergamo,” are built with our “Zen 4c” architecture core and further extend the EPYC 9004 Series of processors to deliver the thread density and scale needed for cloud native computing. Our AMD EPYC 8004 Series processors, formerly codenamed “Siena”, are also built on the “Zen 4c” core into a workload-optimized CPU. Our 3<sup>rd</sup> Gen AMD EPYC and 4th Gen AMD EPYC portfolios both include processors that feature AMD 3D V-Cache™ technology for leadership performance in technical computing workloads.

**Data Center GPUs.** Our AMD Instinct™ family of GPU accelerator products, including AMD Instinct MI200 and MI300 Series which are based on AMD CDNA architecture. AMD Instinct accelerators are designed to address the growing demand for compute-accelerated data center workloads, including AI training and inferencing, and a range of supercomputing applications where the compute capabilities of GPUs can provide additional performance. Combined with our AMD ROCm™ open software platform, our customers can deliver differentiated accelerated platforms to address the next-generation of computing challenges while minimizing power and space needs in the data center. Our visual cloud GPU offerings include products in the Radeon™ PRO V families. Our visual cloud data center GPUs include a range of solutions tailored towards workloads requiring remote visualization, such as Desktop-as-a-Service, Workstation-as-a-Service and Cloud Gaming.

**FPGAs and Adaptive SoCs.** We offer a wide range of FPGAs, Adaptive SoCs and acceleration cards for the data center. Devices include the Virtex™ and Kintex™ FPGA products, as well as Zynq™, Zynq MPSoC, and Versal™ Adaptive SoC products. Our Alveo™ accelerator cards provide a platform for accelerating workloads including AI processing in the data center, at the edge or the cloud. Our AMD Alveo MA35D media accelerator is designed to deliver high channel density, power efficiency and ultra-low-latency performance. To make it accessible for developers, Alveo is available on most major OEM server platforms, as well as a growing presence across all major cloud providers who provide FPGA-as-a-Service (FaaS).

**DPUs.** Our P4 programmable AMD Pensando DPUs are designed to help offload data center infrastructure services from the host CPU, and coupled with our comprehensive networking software stack, AMD DPUs help enable cloud and enterprise customers to optimize performance for network, storage, and security services at cloud scale. Designed for minimal latency, jitter and power impact, our DPUs can help large Infrastructure as a Service (IaaS) cloud providers improve workload performance for hosted virtualized and bare-metal offerings.

## Client Segment

### Client Market

Our CPUs are incorporated into computing platforms, which are a collection of technologies that are designed to work together to provide a more complete computing solution. We believe that integrated, balanced computing platforms consisting of CPUs, chipsets, GPUs (either as discrete GPUs or integrated into an APU or SoC) and AI accelerators that work together at the system level bring end users improved system stability, increased performance and enhanced power efficiency. In addition, we believe customers also benefit from an all-AMD platform (consisting of an APU or CPU, a discrete GPU, a chipset and AMD software), as we are able to optimize interoperability, provide our customers a single point of contact for the key platform components and enable them to bring the platforms to market quickly in a variety of PC form factors. We currently base our CPUs, APUs and chipsets on the x86 instruction set architecture and the AMD Infinity Fabric™, which connects an on-chip memory controller and input/output (I/O) channels directly to our compute engines and domain specific accelerators.

### Client Products

**Desktop CPUs.** Our CPUs and APUs for desktop platforms currently include the AMD Ryzen™ and AMD Athlon™ series processors. Our Ryzen 7000 Series desktop processors are based on “Zen 4” architecture and deliver leadership performance for gamers and content creators. Our AMD Ryzen 5000 Series desktop processor family powered by our “Zen 3” core architecture has up to 16 cores and provides price-performance for all levels of customers. For gaming enthusiasts, both the Ryzen 7000 Series and 5000 Series feature models with the AMD 3D V-Cache technology designed to improve gaming performance. AMD has returned to the high end desktop (HEDT) segment with Ryzen Threadripper™ 7000 Series processors featuring up to 64 cores.

**Notebook CPUs.** Our mobile APUs, including AMD Ryzen and AMD Athlon mobile processors for the commercial and consumer markets, combine both high levels of performance and efficiency for notebook PCs. Our AMD Ryzen 7045 Series processors are designed to deliver high performance gaming solutions. Our AMD Ryzen 7040 Series processors for mobile applications have up to 8 “Zen 4” architecture cores, are built on 4 nm process technology, and feature AMD RDNA 3 graphics. Our Ryzen 7040 Series mobile processors also feature dedicated AI hardware in an x86 processor, with our XDNA architecture. Built on advanced 6 nm technology, our AMD Ryzen and Athlon 7020 C-Series processors have up to four cores and eight threads built on “Zen 2” architecture and AMD RDNA 2 integrated graphics to deliver fast and responsive performance for modern productivity, video conferencing, learning apps and streaming applications. We also offer AMD Ryzen 6000 Series mobile processors, built on “Zen 3+” architecture and AMD Ryzen 5000 Series mobile processors, which are powered by both our “Zen 2” and “Zen 3” core architectures, which are designed for mainstream solutions in both consumer and commercial markets. Our AMD Ryzen Z1 Series processors bring high-performance to handheld Windows-based PC gaming platforms. These processors feature “Zen 4” processor technology combined with RDNA 3 graphics to deliver fast PC gaming, incredible battery life, and immersive experiences in handheld systems.

**Commercial CPUs.** We offer enterprise-class desktop and mobile PC solutions sold as AMD PRO Mobile and AMD PRO desktop processors with Radeon™ graphics for the commercial market. AMD Ryzen PRO, AMD Threadripper PRO and AMD Athlon PRO processors solutions are designed to provide enterprise customers with the performance, security capabilities and business features such as enhanced security and manageability, platform longevity and extended image stability. Our AMD Ryzen Threadripper PRO 7000 WX-Series processors with “Zen 4” core architecture and 5000 WX-Series processors with “Zen 3” core architecture provide full-spectrum performance across multiple workstation workloads due to the performance and efficiency of the Zen CPU core with core count scaling up to 96 cores in the 7000 WX-Series. Our Ryzen PRO 7040 Series Mobile processors are built on “Zen 4” architecture, AMD RDNA 3 integrated graphics, AMD PRO technologies and Ryzen AI, on select models. Our AMD Ryzen Threadripper PRO 7000 WX-Series processors are built on 5 nm “Zen 4” architecture.

**Chipsets.** We offer a full suite of chipset products to support our AMD Ryzen and Threadripper platforms, including chipsets for the AM5 socket like the X670 chipsets which support PCIe® 5.0 (fifth generation Peripheral Component Interconnect Express motherboard interface) designed for enthusiast desktop platforms. In the AM5 platform we also offer B650 chipsets to enable a broader range of solutions in the market. In the AM4 ecosystem for 5000-series processors and prior, we offer the X570, B550 and A520 chipsets. In addition, we continue to offer the B450 chipsets that are combined with AMD Ryzen processors for the AM4 desktop platform for the performance and affordable mainstream platforms segments. In HEDT and Workstation segments, we offer the WRX90 and TRX50 chipsets to support 7000-series Threadripper and Threadripper PRO platforms, as well as the WRX80 chipsets to support the 5000-series Threadripper PRO platforms.



## Gaming Segment

### Gaming Market

Graphics processing is a fundamental component across many of our products and can be found in APU, GPU, SoC or a combination of a discrete GPU with another product working in tandem. Our customers generally use our graphics solutions to enable or increase the speed of rendering images, to help improve image resolution and color definition and/or to process AI/ML based workloads. We develop our graphics products for use in various computing devices and entertainment platforms, including desktop PCs, notebook PCs, handheld PCs, All-in-Ones (AIOs), professional workstations, and the data center. With each of our graphics products, we have available drivers and supporting software packages that enable the effective use of these products under a variety of operating systems and applications. We have developed AMD RDNA™ 3, a high performing and power efficient graphics architecture, featuring a chiplet design, AI accelerators and the Radiance Display™ Engine. This generation continues to support advanced graphics features introduced with RDNA 2, such as ray tracing, AMD Infinity Cache™ and variable rate shading. The Sony PlayStation® 5 and Microsoft® Xbox Series S™ and X™ game consoles also feature our RDNA graphics architecture. Our APUs deliver visual processing functionality for value and mainstream PCs by integrating a CPU and a GPU on a single chip, while discrete GPUs (which are also known as dGPUs) offer high-performance graphics processing across all platforms. We leverage our core IP, including our graphics and processing technologies to develop semi-custom solutions. Here, semiconductor suppliers work alongside system designers and manufacturers to enhance the performance and overall user experience for semi-custom customers. We have used this collaborative co-development approach with many of today's leading game console and handheld PC gaming manufacturers and can also address customer needs in many other markets. We leverage our existing IP to create a variety of products tailored to a specific customer's needs, including complex fully-customized SoCs to more modest adaptations and integrations of existing CPU, APU or GPU products.

### Gaming Products

**Semi-Custom Products.** Our semi-custom products are tailored, high-performance, customer-specific solutions based on our CPU, GPU and multi-media technologies. We work closely with our customers to define solutions to precisely match the requirements of the device or application. We developed the semi-custom SoC products that power both the Sony PlayStation 5 as well as the Microsoft Xbox Series S and X game consoles. We partnered with Valve to create a semi-custom APU optimized for handheld gaming to power the Steam Deck™.

**Discrete Desktop and Notebook GPUs.** Our AMD Radeon series discrete GPU processors for desktop and notebook PCs support current generation application program interfaces (APIs) like DirectX® 12 Ultimate and Vulkan®, support high-refresh rate displays using AMD FreeSync™, AMD FreeSync Premium, and AMD FreeSync Premium Pro technologies, and are designed to support VR in PC platforms. Our AMD Radeon Software offers performance enhancing tools and enables new features and customization capabilities to customers and end-users. In addition, we also offer tools for game developers such as our AMD FidelityFX™ open-source image quality software toolkit that helps deliver improved visual quality with minimal performance overhead. FidelityFX Super Resolution (FSR) uses upscaling technologies to help boost frame rates in games. Our FSR 2.0 technology uses temporal data and optimized anti-aliasing to boost frame rates in supported games while delivering similar or better image quality than native resolution without the requirement of dedicated machine learning hardware. Our FSR 3.0 technology combines the upscaling features of prior versions while introducing our AMD Fluid Motion Frames Technology which generates interpolated frames between native frames to increase the frame rate of games for a smoother gaming experience. Varying versions of FSR are supported in over 250 games and multiple products including Radeon GPUs, Ryzen APUs, and many of our Semi-custom solutions. Being an open-source technology FSR works across competing hardware solutions as well.

Our AMD Radeon RX 7000 series are built on the high-performance, energy-efficient AMD RDNA3 architecture which provides up to 96 compute units, second generation high-bandwidth, low-latency AMD Infinity Cache technology as well as dedicated AI and ray tracing hardware. The AMD RDNA 3 architecture provides process optimizations plus firmware and software enhancements and supports AI-accelerated video encoding and hardware-accelerated AV1 encoding. It uses high-speed GDDR6 video RAM (VRAM) and targets discrete desktop GPUs with up to 24GB of VRAM, notebook GPUs with up to 16GB of VRAM. We continue to offer AMD Radeon RX 6000 series discrete graphics, based on our RDNA2 architecture, for high-performance gaming desktops and notebooks. Our AMD Advantage Design™ Framework is a collaboration with our global PC partners, delivering high-performance gaming notebooks by combining our AMD Radeon RX series mobile graphics, AMD Software: Adrenalin Edition, AMD Ryzen series mobile processors and utilizing AMD smart technologies to provide best-in-class gaming experiences.

**Professional GPUs.** Our AMD Radeon W7000 PRO family of professional graphics products are based on the AMD RDNA3 architecture and are designed for integration in mobile and desktop workstations. AMD Radeon PRO graphics cards are designed to optimize design workloads across demanding use cases such as 3D rendering, design and manufacturing for CAD, and media and entertainment for broadcast and animation pipelines on high resolution displays. Our AMD Radeon PRO W7000 series supports workstation GPUs with up to 48GB of VRAM and features the AMD Radiance Display Engine™ featuring DisplayPort™ 2.1 that delivers very high resolution and refresh rates, image fidelity and color accuracy. We continue to offer our AMD Radeon PRO W6000 series workstation graphics products based on our AMD RDNA 2 architecture for high-performance workstations.

## Embedded Segment

### The Embedded Market

The Embedded segment primarily includes embedded CPUs, GPUs, APUs, FPGAs, and Adaptive SoC products. Embedded products address computing needs in automotive, industrial, test, measurement, emulation, medical, broadcast, professional audio visual (ProAV), aerospace, defense, communications, networking, security, and storage markets as well as thin clients, which are computers that serve as an access device on a network. Typically, our embedded products are used in applications that require varying levels of performance, where key features may include relatively low power, small form factors, and 24x7 operations. High-performance graphics are important in some embedded systems. Support for Linux®, Windows® and other operating systems as well as for increasingly sophisticated applications are also critical for some customers. Other requirements may include meeting rigid specifications for industrial temperatures, shock, vibration and reliability. The embedded market has moved from developing proprietary, custom designs to leveraging industry-standard instruction set architectures and processors as a way to help reduce costs and speed time to market.

### Embedded Products

**Embedded CPUs, APUs and GPUs.** Our products for embedded platforms include AMD EPYC Embedded CPUs, AMD Ryzen Embedded V-Series APUs and CPUs, AMD Ryzen Embedded R-Series APUs and CPUs, AMD Ryzen Embedded 5000 Series processors and AMD Ryzen Embedded 7000 Series processors. Our embedded processors and GPUs are designed to support high performance and bandwidth network connectivity and security, high-performance storage requirements for enterprise and cloud infrastructure, 3D graphics performance and 4K multimedia requirements of automotive infotainment systems. Our AMD Ryzen Embedded 5000 Series processors use “Zen 3” x86 CPU core architecture and are designed for enterprise reliability to support the consistent uptime requirements needed by security and networking customers. Our AMD Ryzen Embedded 7000 Series processor family combines “Zen 4” architecture and integrated Radeon RDNA 2 graphics for a wide range of embedded applications, including industrial automation, machine vision, robotics and edge servers.

**FPGAs and Adaptive SoCs.** Our FPGA products are hardware-customizable devices that can be tailored to meet the specific needs of each customer, enabling them to differentiate their products and accelerate time-to-market. Our FPGA families include UltraScale+™ (based on 16 nm technology), UltraScale™ (20 nm), 7 Series (28 nm) and older series. Adaptive SoC products include the Zynq SoC and UltraScale+ Multi-Processing System on a Chip (MPSoCs) which combine FPGA technology with a heterogeneous processing system, as well as the industry’s first RFSoc architecture with integrated radio frequency (RF) data converters. The Versal portfolio is composed of software-programmable Adaptive SoCs, with a heterogeneous compute platform that combines Scalar Engines, Adaptable Engines, and Intelligent Engines to achieve dramatic performance improvements over today’s fastest FPGA and accelerate applications in a wide variety of markets, including data center, wired network, 5G wireless infrastructure, automotive, industrial, scientific, medical, aerospace and defense.

**Development Boards, Kits and Configuration Products.** We offer development kits for all our FPGA and Adaptive SoC products that include hardware, development tools, IP and reference designs that are designed to streamline and accelerate the development of domain-specific and market-specific applications. Our AMD Kria™ K24 SOM provides high determinism and low latency for powering electric drives and motor controllers used in compute-intensive digital signal processing (DSP) applications at the edge. Coupled with our KD240 Drives Starter Kit, an out-of-the-box-ready motor control-based development platform, the products offer a seamless path to production deployment with the K24 SOM.

**Legacy Product Families.** Prior generation high-end Virtex FPGA families include Virtex-6, Virtex-5, Virtex-4, Virtex-II Pro, Virtex-II and the original Virtex family. Prior generation low end Spartan™ FPGA families include Spartan-6, Spartan-3, the Spartan-3E and Spartan-3A, Spartan-IIE, Spartan-II, Spartan XL and the original Spartan family. Complex Programmable Logic Devices (CPLDs) operate on the lowest end of the programmable logic density spectrum. CPLDs are single-chip, nonvolatile solutions characterized by instant-on and universal interconnect. Prior generations of CPLDs include the CoolRunner™ and XC9500 product families.

## **Design Platforms and Services**

**Adaptable Platforms.** We offer two types of platforms that support our customers' designs and reduce their development efforts: FPGAs and Adaptive SoCs. All devices feature adaptable hardware that enables our customers to implement customized, domain-specific architectures. With both hardware-accelerated performance and flexibility beyond what CPUs, GPUs, application-specific standard parts (ASSPs), and application-specific integrated circuits (ASICs) can offer, customers can introduce new innovations to the market quickly. FPGAs feature reconfigurable hardware as well as integrated memory, digital signal processing, analog mixed signal, high-speed serial transceivers, and networking cores coupled with advanced software for a broad range of applications in all of our end markets. Our Adaptive SoCs feature a heterogeneous processing subsystem with integrated programmable hardware fabric targeting embedded systems needing real-time control, analytics, sensor fusion, and adaptable hardware for differentiation and acceleration. Our Zynq UltraScale+ RFSoc feature integrated high-performance RF data converters targeting wireless, radar, and cable access applications. Enabled by both hardware and software design tools and an extensive operating system, middleware, software stack, and IP ecosystem, SoC platforms target software developers as well as traditional hardware designers. Versal is the most recent addition to the silicon portfolio. Versal combines Scalar Processing Engines, Adaptable Hardware Engines, and Intelligent Engines with leading-edge memory and interfacing technologies to deliver powerful heterogeneous acceleration for any application. This product family is ideally suited to accelerate a broad set of applications in the emerging era of big data and AI. Versal hardware and software can be programmed and optimized by software developers, data scientists, and hardware developers alike, enabled by a host of tools, software, libraries, IP, middleware, and frameworks that enable industry-standard design flows.

**Software Development Platform.** To accommodate hardware and software designers, as well as software developers and AI scientists, we provide design tools and software stacks tailored to each user profile. Our Vivado™ ML Edition provides hardware design teams with the tools and methodology needed to program FPGAs and Adaptive SoCs. Our Vitis™ unified software platform enables the development and deployment of embedded software and accelerated applications, on our FPGAs and Adaptive SoCs. Our Vitis AI unified software platform enables the development and deployment of AI software on our FPGAs and Adaptive SoCs.

## **Sales and Marketing**

We sell our products through our direct sales force and through independent distributors and sales representatives in both domestic and international markets. Our sales arrangements generally operate on the basis of product forecasts provided by the particular customer, but do not typically include any commitment or requirement for minimum product purchases. We primarily use product quotes, purchase orders, sales order acknowledgments and contractual agreements as evidence of our sales arrangements. Our agreements typically contain standard terms and conditions covering matters such as payment terms, warranties and indemnities for issues specific to our products.

We generally warrant that our products sold to our customers will conform to our approved specifications and be free from defects in material and workmanship under normal use and conditions for one year. We offer up to three-year limited warranties for certain product types, and sometimes provide other warranty periods based on negotiated terms with certain customers.

We market and sell our latest products under the AMD trademark. Our client processors include: AMD Ryzen, AMD Ryzen PRO, AMD Ryzen Threadripper, AMD Ryzen Threadripper PRO, AMD Athlon, AMD Athlon PRO, and AMD PRO A-Series. These products service desktop and notebook personal computers.

Our product brand for the consumer graphics market is AMD Radeon graphics, and AMD Embedded Radeon graphics is our product brand for the embedded graphics market.

Our product brand for professional graphics products is AMD Radeon PRO graphics.

Our product brands for data center graphics are Radeon PRO V-series, and AMD Instinct accelerators for servers. We also market and sell our chipsets under AMD trademarks.

Our product brand for server microprocessors is AMD EPYC processors.

We also sell low-power versions of our AMD Athlon, as well as AMD Geode™, AMD Ryzen, AMD EPYC, AMD R-Series and G-Series processors as embedded processor solutions.

Our FPGA product brands are Virtex-6, Virtex-7, Virtex UltraScale+, Kintex-7, Kintex UltraScale, Kintex UltraScale+, Artix-7, Artix UltraScale+, Spartan-6 and Spartan-7.

Our product brands for Adaptive SoCs are Zynq-7000, Zynq UltraScale+ MPSoC, Zynq UltraScale+ RFSocS, Versal HBM, Versal Premium, Versal Prime, Versal AI Core, Versal AI Edge, Vitis and Vivado.

Our product brand for System-on-Module (SOM) is Kria.

Our compute and network acceleration board products are sold under the Alveo and Pensando brands.

We market our products through direct marketing and co-marketing programs. In addition, we have cooperative advertising and marketing programs with customers and third parties, including market development programs, pursuant to which we may provide product information, training, marketing materials and funds. Under our co-marketing development programs, eligible customers can use market development funds as reimbursement for advertisements and marketing programs related to our products and third-party systems integrating our products, subject to meeting defined criteria.

## **Customers**

Our Data Center Segment customers consist primarily of hyperscale data centers, original equipment manufacturers (OEMs), original design manufacturers (ODMs), system integrators and independent distributors in both domestic and international markets. ODMs provide design and/or manufacturing services to branded and unbranded private label resellers, OEMs and system builders.

Customers of our Client Segment products consist primarily of PC OEMs, a network of independent distributors and, for chipset products, ODMs that manufacture motherboards. Our Gaming Segment customers include PC OEMs and independent distributors as well as add-in-board manufacturers (AIBs), independent game console and portable gaming devices manufacturers and contract manufacturers for AMD branded graphics cards.

Our Embedded Segment products are sold to customers in a very wide range of markets such as Aerospace and Defense, Test and Measurement, Industrial, Automotive, Consumers, Broadcast, Communication Infrastructure and Data Center. For these products we either sell directly to our customers or through a network of distributors and OEM partners. We are also developing a network of Value Added Resellers (VARs) and Integrated Solution Vendors (ISVs) for our Alveo products.

We work closely with our customers to define product features, performance and timing of new products so that the products we are developing meet our customers' needs. We also employ application engineers to assist our customers in designing, testing and qualifying system designs that incorporate our products. We believe that our commitment to customer service and design support improves our customers' time-to-market and fosters relationships that encourage customers to use the next generation of our products.

We also work with our customers to create differentiated products that leverage our CPU, GPU, DPU and APU technology. Certain customers pay us non-recurring engineering fees for design and development services and a purchase price for the resulting products.

One customer accounted for 18% of our consolidated net revenue for the year ended December 30, 2023. Sales to this customer consisted of sales of products from our Gaming segment. A loss of this customer would have a material adverse effect on our business.

### **Original Equipment Manufacturers**

We focus on three types of OEM partners: multi-nationals, selected regional accounts and selected global and local system integrators, who target commercial and consumer end customers of all sizes. Large multi-nationals and regional accounts are the core of our OEM partners' business; however, we are increasingly focused on the VAR channel which resells OEM systems to the mid-market and the small and medium business (SMB) segments. Additionally, we have increased our focus on global system integrators, which resell OEM systems, coupled with their software and services solutions into Enterprise, high performance computing (HPC) and Cloud Service Provider customers. Our OEM customers include numerous foreign and domestic manufacturers of servers and workstations, desktops, notebooks, PC motherboards and game consoles.

### **Hyperscale Data Centers**

Large multi-national public cloud service providers and hyperscale private data centers directly and indirectly purchase a substantial portion of our data center-focused products, including server CPUs, GPU accelerators, DPUs, FPGAs and Adaptive SOCs. These products are incorporated into servers and other data center appliances sold by OEMs to the hyperscale customers or into custom servers or hardware designed by or for these customers and manufactured by ODMs or contract manufacturers. Hyperscale data centers use these products to operate web-based applications or to support public cloud computing and storage service offerings, including but not limited to AI workloads such as generative AI models.

### **Third-Party Distributors**

Our authorized channel distributors resell to sub-distributors and OEMs, ODMs, and other customers. Typically, distributors handle a wide variety of products, and may include products from other manufacturers that compete with our products. Distributors typically maintain an inventory of our products. In most instances, our agreements with distributors protect their inventory of our products against price reductions and provide certain return rights with respect to any product that we have removed from our price book or otherwise subject to discontinuation. In addition, some agreements with our distributors may contain standard stock rotation provisions permitting limited product returns.

### **Add-in-Board (AIB) Manufacturers and System Integrators**

We offer component-level graphics and chipset products to AIB manufacturers who in turn build and sell board-level products using our technology to system integrators (SIs), retail buyers and sub distributors. Our agreements with AIBs protect their inventory of our products against price reductions. We also sell directly to our SI customers. SIs typically sell from positions of regional or product-based strength in the market. They usually operate on short design cycles and can respond quickly with new technologies. SIs often use discrete graphics solutions as a means to differentiate their products and add value to their customers.

### **Competition**

The markets in which our products are sold are highly competitive and delivering the latest and best products to market on a timely basis is critical to achieving revenue growth. We believe that the main factors that determine our product competitiveness are total cost of ownership, timely product introductions, product quality, product features and capabilities (including accelerations for key workloads such as AI, energy efficiency (including power consumption and battery life, given their impact on total cost of ownership), reliability, processor clock speed, performance, size (or form factor), selling price, cost, adherence to industry standards (and the creation of open industry standards), level of integration, software and hardware compatibility, ease of use and functionality of software design tools, completeness of applicable software solutions, security and stability, brand recognition and availability. We expect that competition will continue to be intense due to rapid technological changes, frequent product introductions by our competitors or new competitors of products that may provide better performance or experience or that may include additional features that render our products comparatively less competitive.

### **Competition in Data Center Segment**

In Data Center, we compete against Intel Corporation (Intel) and NVIDIA Corporation (NVIDIA) with our CPU, GPU and DPU server products. In addition, we compete against Intel with our FPGA and Adaptive SoC server products. A variety of smaller fabless silicon companies offer proprietary accelerator solutions and ARM based CPUs targeting data center use-cases. In addition, some of our customers are internally developing their own data center microprocessor products and accelerator products which could impact the available market for our products.

## **Competition in Client Segment**

Our primary competitor in the supply of CPUs and APUs is Intel. A variety of companies provide or have developed ARM-based microprocessors and platforms. ARM-based designs are being used in the PC market, which could lead to further growth and development of the ARM ecosystem.

## **Competition in Gaming Segment**

In the graphics market, our principal competitor in the supply of discrete graphics is NVIDIA, who is the market share leader, and Intel, who manufactures and sells integrated graphics processors and gaming-focused discrete GPUs. With respect to integrated graphics, higher unit shipments of our APUs and Intel's integrated graphics may drive computer manufacturers to reduce the number of systems they build paired with discrete graphics components, particularly for notebooks, because they may offer satisfactory graphics performance for most mainstream PC users at a lower cost. We are the market share leader in semi-custom game console products, where graphics performance is critical.

## **Competition in Embedded Segment**

We expect continued competition from our primary FPGA competitors such as Intel, Lattice Semiconductor Corporation and Microsemi Corporation (Microsemi, acquired by Microchip), from ASSP vendors such as Broadcom Corporation, Marvell Technology Group, Ltd., Analog Devices, Texas Instruments Incorporated and NXP Semiconductors N.V., and from NVIDIA. In addition, we expect continued competition from the ASIC market, which has been ongoing since the inception of FPGAs. Intel is our main competitor for embedded CPUs. Other competitors include manufacturers of high-density programmable logic products characterized by FPGA-type architectures; high-volume and low-cost FPGAs as programmable replacements for ASICs and ASSPs; ASICs and ASSPs with incremental amounts of embedded programmable logic; high-speed, low-density complex programmable logic devices (CPLDs); high-performance digital signal processing (DSP) devices; products with embedded processors; products with embedded multi-gigabit transceivers; discrete general-purpose GPUs targeting data center and automotive applications; and other new or emerging programmable logic products.

## **Research and Development**

We focus our research and development (R&D) activities on designing and developing products. Our main area of focus is on delivering the next generation of processors (CPU and GPU), FPGAs and Adaptive SoCs, accelerators (adaptive, graphics and DPU), System on Modules (SOMs) and SmartNICs and associated software. We focus on designing new ICs with improved performance and performance-per-watt in advanced semiconductor manufacturing processes, the design of logic and interface IP, advanced packaging technologies, and heterogeneous integration technologies. We also focus on software as part of the development of our products, including design automation tools for hardware, embedded software, optimized software tools and libraries that extend the reach of our platforms to software and AI developers. Through our R&D efforts, we were able to introduce a number of new products and enhance our IP core offerings and software.

We also work with industry leaders on process technology, design tools, intellectual property, software and other industry consortia to conduct early-stage research and development. We are also actively contributing to numerous industry open-source software initiatives across a broad range of technologies. We conduct product and system research and development activities for our products in the United States with additional design and development engineering teams located in various countries who undertake specific activities at the direction of our U.S. headquarters.

## **Manufacturing Arrangements and Assembly and Test Facilities**

### ***Third-Party Wafer Foundry Facilities***

We have foundry arrangements with Taiwan Semiconductor Manufacturing Company Limited (TSMC) for the production of wafers for our HPC, FPGA and Adaptive SoC products. We are also a party to a Wafer Supply Agreement (WSA) with GLOBALFOUNDRIES Inc. (GF), with respect to wafer purchases for our HPC products at the 12 nm and 14 nm technology nodes. Additionally, we utilize TSMC, United Microelectronics Corporation (UMC) and Samsung Electronics Co., Ltd. for the production of our integrated circuits (IC) in the form of programmable logic devices.

### **Other Third-Party Manufacturers**

We outsource board-level graphics product manufacturing to third-party manufacturers.

### **Assembly, Test, Mark and Packaging Facilities**

Wafers for our products are either sorted by the foundry or delivered by the foundry to our assembly, test, mark and packaging (ATMP) partners or subcontractors located in the Asia-Pacific region who package and test our final semiconductor products. We are party to two ATMP joint ventures (collectively, the ATMP JVs) with Tongfu Microelectronics Co., Ltd. The ATMP JVs, Siliconware Precision Industries Ltd. (SPIL) and King Yuan Electronics Company (KYECC) provide ATMP services for our products.

### **Intellectual Property and Licensing**

We rely on contracts and intellectual property rights to protect our products and technologies from unauthorized third-party copying and use. Intellectual property rights include copyrights, patents, patent applications, trademarks, trade secrets and mask work rights. As of December 30, 2023, we had approximately 7,500 patents in the United States and approximately 2,000 patent applications pending in the United States. In certain cases, we have filed corresponding applications in foreign jurisdictions. Including United States and foreign matters, we have approximately 18,500 patent matters worldwide consisting of approximately 12,800 issued patents and 5,600 patent applications pending. We expect to file future patent applications in both the United States and abroad on significant inventions, as we deem appropriate. We do not believe that any individual patent, or the expiration of any patent, is or would be material to our business. As is typical in the semiconductor industry, we have numerous cross-licensing and technology exchange agreements with other companies under which we both transfer and receive technology and intellectual property rights. We have acquired various licenses from external parties to certain technologies that are implemented in our products, including our IP cores and devices. These licenses support our continuing ability to make and sell our products. We have also acquired licenses to certain proprietary software, open-source software, and related technologies, such as compilers, for our design tools. Continued use of such software and technology is important to the operation of the design tools upon which our customers depend.

### **Backlog**

Sales are made primarily pursuant to purchase orders for current delivery or agreements covering purchases over a period of time. Although such orders or agreements may provide visibility into future quarters, they may not necessarily be indicative of actual sales for any succeeding period as some of these orders or agreements may be revised or canceled without penalty.

### **Seasonality**

Our operating results tend to vary seasonally. Historically, our net revenue has been generally higher in the second half of the year than in the first half of the year, although market conditions and product transitions could impact these trends.

### **Human Capital**

As of December 30, 2023, we had approximately 26,000 employees in our global workforce. We believe we are at our best when our culture of innovation, creative minds and people from all kinds of backgrounds work together in an engaging and open environment. Areas of focus for us include the following:

#### ***Mission, Culture, and Engagement***

**Our History** - Founded in 1969 as a Silicon Valley start-up, the AMD journey began with dozens of employees focused on leading-edge semiconductor products. From those modest beginnings, we have grown into a global company achieving many important industry firsts along the way. Today, we develop high-performance and adaptive computing to solve some of the world's toughest and most interesting challenges.

**Our Vision** - High performance and adaptive computing is transforming our lives.

**Our Mission** - Build great products that accelerate next-generation computing experiences.

Our employees are driven by this vision and mission. Innovation occurs when creative minds and diverse perspectives from all over the world work together. This is the foundation of our unique culture and the reason why we believe our employees are among the most engaged in our industry.



We conduct a confidential annual survey of our global workforce to measure our culture, engagement, and manager quality. The results are reviewed by our Board of Directors and acted upon by our senior leadership team and individual managers at every level. Results from our 2023 survey reported scores that continued to be among the very best for global companies in the technology industry. Our employees described our culture as inclusive, innovative, open, and respectful, and rated the quality of our managers among the top 10% of our technology industry peers.

#### ***Diversity, Belonging and Inclusion (DB&I)***

Our diverse and inclusive workforce encourages employees to share their opinions and different perspectives. We believe that building a diverse talent pipeline, encouraging a culture of respect and belonging, and increasing inclusion of unique and underrepresented voices makes our company stronger. Our Employee Resource Groups, which are open to all our employees, encourage employee engagement and play an important role in our culture. More than 85% of all new hires join at least one of AMD's employee resource groups when starting employment.

We are focused on hiring and developing underrepresented groups and women leaders. In 2023, we increased focus on developing our female engineering community by launching an experiential program, "Advancing Women in Technology," that aims to support career development. We are proud to be led by Dr. Lisa Su, a highly regarded CEO who has won many esteemed awards for her business and leadership prowess.

#### ***Total Rewards***

We invest in our workforce by offering competitive salaries, incentives, and benefits to ensure that we continue to attract and retain the industry's best and brightest in an equitable manner. We perform pay equity analysis regularly and act on results, if warranted. Our rewards are guided by employees' preferences and the market for talent. We focus on flexibility and choice in our benefits that resonate with a multi-generational workforce as well as offering inclusive benefits that support our DB&I objectives, such as global parental and bereavement leave, and financial assistance to build a family through adoption or surrogacy. While we believe that there is unique collaboration that can occur when employees meet in person, we have not mandated that all employees return to the office five days a week, allowing flexibility with hybrid and remote work as options for our employees.

We have a strong pay for performance culture that we believe drives superior results. Our employees have benefited from our robust financial results through our strong short-term and long-term incentive programs. Our rewards programs enable us to attract, retain and motivate our workforce.

#### ***Development***

We offer our employees opportunities to advance their careers at the Company and the majority of our new leaders are promoted from within. We are focused on leadership progression and encourage our employees to take advantage of new opportunities. Our manager and leadership development programs are highly rated, and we provide specialized development programs for our employees as well as educational assistance in the form of tuition reimbursement for eligible employees to continue their university education or achieve advanced certifications.

We have an enterprise-wide mentoring program where employees have the opportunity to learn from experienced colleagues, develop new skills, and build their professional networks. The program also supports effective onboarding, helping new hires more quickly acclimate to our company culture and work processes. We believe that our mentoring program is a valuable investment in our workforce, and we are committed to its ongoing success.

#### ***Employee Voice***

At AMD, we value the importance of employee voice and actively engage in efforts to ensure that our employees' opinions and perspectives are heard and considered. Our employee voice strategy includes an annual AMDer Survey (engagement survey). Our scores rank AMD in the top 10% of high tech firms on like questions, categories and overall score. Additionally, we measure effectiveness across all elements of the employee lifecycle, including onboarding, exit, and various ad hoc surveys including benefits and total rewards satisfaction. Further, our executive team holds frequent employee roundtables, town halls and global team meetings with question-and-answer segments which facilitates open communication and feedback from our workforce.



## **Government Regulations**

Our global operations are subject to various United States and foreign laws and regulations, including, but not limited to, those relating to export control, customs, intellectual property, data privacy and security, climate, environmental, health and safety requirements, cybersecurity, tax, employment, competition and anti-trust, anti-corruption, anti-bribery, conflict minerals, corporate governance, financial and other disclosures, and AI. Compliance with these governmental laws and regulations do not presently have a material adverse impact on our capital expenditures, results of operations or competitive position. However, compliance with changes to existing or new regulations may have a material adverse impact on our future capital expenditures, results of operations or competitive position. In addition, the failure to comply with government laws and regulations may subject us to consequences including fines, limits on our ability to sell our products, suspension of certain of our business activities, reputational damage, criminal and civil liabilities, and sanctions, which may have a material adverse effect on our capital expenditures, results of operations or competitive position. For additional information about government regulations applicable to our business, and their potential impacts see Risk Factors in Item 1A.

## **Environmental Regulations**

Our operations and properties are subject to various United States and foreign laws and regulations, including those relating to materials used in our products and the manufacturing processes of our products, discharge of pollutants into the environment, the treatment, transport, storage and disposal of solid and hazardous wastes and remediation of contamination. These laws and regulations require our suppliers to obtain permits for operations making our products, including the discharge of air pollutants and wastewater. Environmental laws are complex, change frequently and tend to become more stringent over time. For example, the European Union (EU) and China are among a growing number of jurisdictions that have enacted restrictions on the use of lead and other materials in electronic products. These regulations affect semiconductor devices and packaging. Jurisdictions including the EU, Australia, California and China are developing or have finalized market entry or public procurement regulations for computers and servers based on ENERGY STAR specifications as well as additional energy consumption limits.

Certain environmental laws, including the United States Comprehensive, Environmental Response, Compensation and Liability Act of 1980, or the Superfund Act, impose strict or, under certain circumstances, joint and several liability on current and previous owners or operators of real property for the cost of removal or remediation of hazardous substances and impose liability for damages to natural resources. These laws often impose liability even if the owner or operator did not know of, or was not responsible for, the release of such hazardous substances. These environmental laws also assess liability on persons who arrange for hazardous substances to be sent to disposal or treatment facilities when such facilities are found to be contaminated. Such persons can be responsible for cleanup costs even if they never owned or operated the contaminated facility. We have been named as a responsible party on Superfund clean-up orders for three sites in Sunnyvale, California that are on the National Priorities List. Since 1981, we have discovered hazardous material releases to the groundwater from former underground tanks and proceeded to investigate and conduct remediation at these three sites. The chemicals released into the groundwater were commonly used in the semiconductor industry in the United States in the wafer fabrication process prior to 1979.

In 1991, we received Final Site Clean-up Requirements Orders from the California Regional Water Quality Control Board relating to the three sites. We have entered into settlement agreements with other responsible parties on two of the orders. During the term of such agreements, other parties have agreed to assume most of the foreseeable costs as well as the primary role in conducting remediation activities under the orders. We remain responsible for additional costs beyond the scope of the agreements as well as all remaining costs in the event that the other parties do not fulfill their obligations under the settlement agreements.

To address anticipated future remediation costs under the orders, we have computed and recorded an estimated environmental liability of approximately \$4.8 million and have not recorded any potential insurance recoveries in determining the estimated costs of the cleanup. The progress of future remediation efforts cannot be predicted with certainty and these costs may change. We believe that any amount in addition to what has already been accrued would not be material.

## ITEM 1A. RISK FACTORS

*The risks and uncertainties described below are not the only ones we face. If any of the following risks actually occurs, our business, financial condition or results of operations could be materially adversely affected. In addition, you should consider the interrelationship and compounding effects of two or more risks occurring simultaneously.*

### Risk Factors Summary

The following is a summary of the principal risks that could adversely affect our business, financial condition and results of operations.

#### Economic and Strategic Risks

- Intel Corporation's dominance of the microprocessor market and its aggressive business practices may limit our ability to compete effectively on a level playing field.
- Economic and market uncertainty may adversely impact our business and operating results.
- The semiconductor industry is highly cyclical and has experienced severe downturns.
- The demand for our products depends in part on the market conditions in the industries into which they are sold. There may be fluctuations in demand for our products or a market decline in any of these industries.
- The loss of a significant customer may have a material adverse effect on us.
- We are subject to risks associated with public health crises, such as pandemics and epidemics.
- The markets in which our products are sold are highly competitive.
- Our operating results are subject to quarterly and seasonal sales patterns.
- If we cannot adequately protect our technology or other intellectual property through patents, copyrights, trade secrets, trademarks and other measures, we may lose a competitive advantage and incur significant expenses.
- Unfavorable currency exchange rate fluctuations could adversely affect us.

#### Operational and Technology Risks

- We rely on third parties to manufacture our products, and if they are unable to do so on a timely basis in sufficient quantities and using competitive technologies, our business could be materially adversely affected.
- Essential equipment, materials, substrates or manufacturing processes may not be available to us.
- We may fail to achieve expected manufacturing yields for our products.
- The success of our business is dependent upon our ability to introduce products on a timely basis with features and performance levels that provide value to our customers while supporting significant industry transitions.
- Our revenue from our semi-custom System-on-Chip (SoC) products is dependent upon our semi-custom SoC products being incorporated into customers' products and the success of those products.
- Our products may be subject to security vulnerabilities that could have a material adverse effect on us.
- IT outages, data loss, data breaches and cyberattacks could disrupt operations and compromise our intellectual property or other sensitive information, be costly to remediate or cause significant damage to our business, reputation, financial condition and results of operations.
- We may encounter difficulties in operating our newly upgraded enterprise resource planning (ERP) system.
- Uncertainties involving the ordering and shipment of our products could materially adversely affect us.
- Our ability to design and introduce new products includes the use of third-party intellectual property.
- We depend on third-party companies for the design, manufacture and supply of motherboards, software, memory and other computer platform components to support our business and products.

- If we lose Microsoft Corporation's support for our products or other software vendors do not design and develop software to run on our products, our ability to sell our products could be materially adversely affected.
- Our reliance on third-party distributors and add-in-board (AIB) partners subjects us to certain risks.
- Our business depends on the proper functioning of our internal business processes and information systems.
- Our products may not be compatible with some or all industry-standard software and hardware.
- Costs related to defective products could have a material adverse effect on us.
- We may fail to maintain the efficiency of our supply chain as we respond to changes in customer demand.
- We outsource to third parties certain supply-chain logistics functions.
- We may be unable to effectively control the sales of our products on the gray market.
- Climate change may have a long-term impact on our business.

#### **Legal and Regulatory Risks**

- Government actions and regulations may limit our ability to export our products to certain customers.
- If we cannot realize our deferred tax assets, our results of operations could be adversely affected.
- Our business is subject to potential tax liabilities, including as a result of tax regulation changes.
- We are party to litigation and may become a party to other claims or litigation.
- We are subject to environmental laws, conflict minerals-related provisions of the Dodd-Frank Wall Street Reform and Consumer Protection Act, and other laws or regulations that could result in additional costs and liabilities.
- Evolving expectations from governments, investors, customers and other stakeholders regarding corporate responsibility matters could result in additional costs, harm to our reputation and a loss of customers.
- Issues related to the responsible use of AI may result in reputational, competitive and financial harm and liability.

#### **Merger, Acquisition and Integration Risks**

- Acquisitions, joint ventures, and/or investments, and the failure to integrate acquired businesses may fail to materialize their anticipated benefits and disrupt our business.
- Any impairment of our tangible, definite-lived intangible or indefinite-lived intangible assets, including goodwill, may adversely impact our financial position and results of operations.

#### **Liquidity and Capital Resources Risks**

- The agreements governing our notes, our guarantees of Xilinx's notes, and our Revolving Credit Agreement impose restrictions on us that may adversely affect our ability to operate our business.
- Our indebtedness could adversely affect our financial position and prevent us from implementing our strategy or fulfilling our contractual obligations.
- We may not generate sufficient cash to meet our working capital requirements. If we cannot generate sufficient revenue and operating cash flow, we may face a cash shortfall. Also, our cash and cash equivalents could be adversely affected if the financial institutions in which we hold our cash and cash equivalents fail.

#### **General Risks**

- Our worldwide operations are subject to political, legal and economic risks and natural disasters.
- We may incur future impairments of our technology license purchases.
- Our inability to continue to attract and retain qualified personnel may hinder our business.
- Our stock price is subject to volatility.

For a more complete discussion of the material risks facing our business, see below.

## Economic and Strategic Risks

***Intel Corporation's dominance of the microprocessor market and its aggressive business practices may limit our ability to compete effectively on a level playing field.***

Intel's microprocessor market share position, significant financial resources, introduction of competitive new products, and existing relationships with top-tier OEMs have enabled it to market and price its products aggressively, to target our customers and our channel partners with special incentives and to influence customers who do business with us. These aggressive activities have in the past resulted in lower unit sales and a lower average selling price for many of our products and adversely affected our margins and profitability. Intel also dominates the computer system platform and has a heavy influence on PC manufacturers, other PC industry participants, and benchmarks. It is able to drive de facto standards and specifications for x86 microprocessors that could cause us and other companies to have delayed access to such standards. We may be materially adversely affected by Intel's business practices, including rebating and allocation strategies and pricing actions, designed to limit our market share and margins; product mix and introduction schedules; product bundling, marketing and merchandising strategies; and exclusivity payments to its current and potential customers, retailers and channel partners. We expect Intel to continue to heavily invest substantial resources in marketing, research and development, new manufacturing facilities and other technology companies. To the extent Intel manufactures a significantly larger portion of its microprocessor products using more advanced process technologies or introduces competitive new products into the market before we do, we may be more vulnerable to Intel's aggressive marketing and pricing strategies for microprocessor products.

We also compete with Intel in field programmable gate arrays (FPGAs) and Adaptive SoC products. In the graphics processing unit (GPU) market, Intel has developed and released their own high-end discrete GPUs, including gaming focused discrete GPUs. Intel could take actions that place our GPUs at a competitive disadvantage, including giving one or more of our competitors in the graphics market preferential access to its proprietary graphics interface or other useful information or restricting access to external companies.

***Economic and market uncertainty may adversely impact our business and operating results.***

Uncertain global or regional economic conditions have and may in the future adversely impact our business. Uncertainty in the economic environment or other unfavorable changes in economic conditions, such as inflation, higher interest rates, recession, slowing growth, increased unemployment, tighter credit markets, changes in fiscal monetary or trade policy, or currency fluctuations, may negatively impact consumer confidence and spending causing our customers to stop or postpone purchases. For example, our Client segment revenue decreased due to a decline in the PC market in the second half of 2022 and the first half of 2023, and our Embedded segment revenue decreased as a result of an inventory correction in several end markets in the second half of 2023. During challenging economic times, our current or potential future customers may experience cash flow problems and as a result may modify, delay or cancel plans to purchase our products. Additionally, if our customers are not successful in generating sufficient revenue or are unable to secure financing, they may not be able to pay, or may delay payment of, accounts receivable that they owe us. The risk related to our customers potentially defaulting on or delaying payments to us is increased because we expect that a small number of customers will continue to account for a substantial part of our revenue. Any inability of our current or potential future customers to pay us for our products may adversely affect our earnings and cash flow. Moreover, our key suppliers may reduce their output or become insolvent, thereby adversely impacting our ability to manufacture our products. Adverse changes in economic conditions could increase costs of memory, equipment, materials or substrates and other supply chain expenses. If we are not able to procure a stable supply of materials on an ongoing basis and at reasonable costs to meet our production requirements, we could experience a supply shortage or an increase in production costs, which could negatively impact our gross margin and materially adversely affect our business. In addition, uncertain economic conditions could lead to higher borrowing costs and reduced availability of capital and credit markets, making it more difficult for us to raise funds through borrowings or private or public sales of debt or equity securities. An economic downturn or increased uncertainty could also lead to failures of counterparties including financial institutions and insurers, asset impairments and declines in the value of our financial instruments.

***The semiconductor industry is highly cyclical and has experienced severe downturns that have materially adversely affected, and may continue to materially adversely affect, our business in the future.***

The semiconductor industry is highly cyclical and has experienced significant downturns, often in conjunction with constant and rapid technological change, wide fluctuations in supply and demand, continuous new product introductions, price erosion and declines in general economic conditions. We have incurred substantial losses in previous downturns, due to substantial declines in average selling prices; the cyclical nature of supply and demand imbalances in the semiconductor industry; a decline in demand for end-user products that incorporate our products; and excess inventory levels and periods of inventory adjustment. Such industry-wide fluctuations may materially adversely affect us in the future.

Global economic uncertainty and weakness have in the past impacted the semiconductor market as consumers and businesses have deferred purchases, which negatively impacted demand for our products. For example, our Client segment revenue decreased due to a decline in the PC market in the second half of 2022 and the first half of 2023, and our Embedded segment revenue decreased as a result of an inventory correction in several end markets in the second half of 2023. Our financial performance has been, and may in the future be, negatively affected by these downturns.

The growth of our business is also dependent on continued demand for our products from high-growth adjacent emerging global markets. Our ability to be successful in such markets depends in part on our ability to establish adequate local infrastructure, as well as our ability to cultivate and maintain local relationships in these markets. If demand from these markets is below our expectations, sales of our products may decrease, which would have a material adverse effect on us.

***The demand for our products depends in part on the market conditions in the industries into which they are sold. Fluctuations in demand for our products or a market decline in any of these industries could have a material adverse effect on our results of operations.***

Industry-wide fluctuations in the computer marketplace have materially adversely affected us in the past and may materially adversely affect us in the future. We offer products that are used in different end markets and the demand for our products can vary among our Data Center, Client, Gaming and Embedded end markets. For instance, in our Data Center segment, we offer products that are optimized for generative AI applications and in the fourth quarter of 2023, we experienced significant demand for our AI accelerators. The demand for such products will depend on the extent to which our customers utilize generative AI solutions in a wide variety of applications. Also, in our Client segment revenue is focused on the consumer desktop and notebook PC segments. Our Client segment revenue decreased due to a decline in the PC market in the second half of 2022 and the first half of 2023. In the past, revenues from the Client and Gaming segments have experienced a decline driven by, among other factors, the adoption of smaller and other form factors, increased competition and changes in replacement cycles. In addition, our GPU revenue in the past has been affected in part by the volatility of the cryptocurrency mining market. If we are unable to manage the risks related to the volatility of the cryptocurrency mining market (including potential actions by global monetary authorities), our GPU business could be materially adversely affected. The success of our semi-custom SoC products in our Gaming segment is dependent on securing customers for our semi-custom design pipeline and consumer market conditions, including the success of game console systems and next generation consoles for Sony and Microsoft. Our Embedded segment primarily includes embedded CPUs and GPUs, APUs, FPGAs and Adaptive SoC products some of which are subject to macroeconomic trends and volatile business conditions. To the extent our embedded customers are faced with higher inventory levels, they may choose to draw down their existing inventory and order less of our products. Our Embedded segment revenue decreased as a result of an inventory correction in several end markets in the second half of 2023.

***The loss of a significant customer may have a material adverse effect on us.***

We depend on a small number of customers for a substantial portion of our business and we expect that a small number of customers will continue to account for a significant part of our revenue in the future. If one of our key customers decides to stop buying our products, materially reduces its operations or its demand for our products, or has operations that are materially impaired for a significant period of time such that it is unable to receive or utilize our products, our business would be materially adversely affected.

***We are subject to risks associated with public health crises, such as pandemics and epidemics, including the COVID-19 pandemic, which may have a material adverse effect on our business.***

We are subject to risks associated with public health crises, such as pandemics and epidemics, which may have a material adverse effect on our business. Global health outbreaks, such as COVID-19, have and may continue to adversely affect our employees, disrupt our business operations and practices, as well those of our customers, partners, vendors and suppliers. Public health measures by government authorities such as travel bans, social-distancing, lockdown measures, vaccination requirements may cause us to incur additional costs, limit our operations, modify our business practices, diminish employee productivity or disrupt our supply chain, which may have a material adverse effect on our business. To the extent a public health crisis will impact our business, financial condition and results of operations depends on factors outside of our control, including severity, duration and the measures to contain the health outbreak.

***The markets in which our products are sold are highly competitive.***

The markets in which our products are sold are highly competitive and delivering the latest and best products to market on a timely basis is critical to achieving revenue growth. We believe that the main factors that determine our product competitiveness are total cost of ownership, timely product introductions, product quality, product features and capabilities (including accelerations for key workloads such as artificial intelligence (AI)), energy efficiency relating to power consumption and battery life given their impact on total cost of ownership, reliability, processor clock speed, performance, size (or form factor), selling price, cost, adherence to industry standards (and the creation of open industry standards), level of integration, software and hardware compatibility, ease of use and functionality of software design tools, completeness of applicable software solutions, security and stability, brand recognition and availability.

We expect that competition will continue to be intense due to rapid technological changes, frequent product introductions by our competitors or new competitors of products that may provide better performance/experience or that may include additional features that render our products comparatively less competitive. We may also face aggressive pricing by competitors, especially during challenging economic times. In addition, our competitors have significant marketing and sales resources which could increase the competitive environment in a declining market or during challenging economic times, leading to lower prices and margins. Some competitors may have greater access or rights to complementary technologies, including interface, processor and memory technical information. For instance, with our APU products and other competing solutions with integrated graphics, we believe that demand for additional discrete graphics chips and cards may decrease in the future due to improvements in the quality and performance of integrated graphics. If competitors introduce competitive new products into the market before us, demand for our products could be adversely impacted and our business could be adversely affected. In addition, Intel is expanding its position in integrated graphics for the PC market with high-end discrete graphics solutions for a broad range of computing markets, which may negatively impact our ability to compete in these computing markets, and Nvidia has added an ARM CPU offering which adds competition in the CPU market. Also, increased adoption of ARM-based semiconductor designs could lead to further growth and development of the ARM ecosystem. While we see significant opportunity in AI, we expect intense competition from companies such as Nvidia in the supply of GPUs and other accelerators for the AI market.

In addition, we are entering markets with current and new competitors who may be able to adapt more quickly to customer requirements and emerging technologies. We cannot guarantee that we will be able to compete successfully against current or new competitors who may have stronger positions in these new markets or superior ability to anticipate customer requirements and emerging industry trends. Furthermore, we may face competition from some of our customers who internally develop the same products as us. We may face delays or disruptions in research and development efforts, or we may be required to invest significantly greater resources in research and development than anticipated. Also, the semiconductor industry has seen several mergers and acquisitions over the last number of years. Further consolidation could adversely impact our business due to there being fewer suppliers, customers and partners in the industry.

From time to time, governments provide incentives or make other investments that could benefit and give a competitive advantage to our competitors. For example, the United States government enacted the Creating Helpful Incentives to Produce Semiconductors for America and Science Act (CHIPS Act) of 2022 to provide financial incentives to the U.S. semiconductor industry. Government incentives, including the CHIPS Act, may not be available to us on acceptable terms or at all. If our competitors can benefit from such government incentives and we cannot, it could strengthen our competitors' relative position and have a material adverse effect on our business.

***Our operating results are subject to quarterly and seasonal sales patterns.***

The profile of our sales may be weighted differently during the year. A large portion of our quarterly sales have historically been made in the last month of the quarter. This uneven sales pattern makes prediction of revenue for each financial period difficult and increases the risk of unanticipated variations in quarterly results and financial condition. In addition, our operating results tend to vary seasonally with the markets in which our products are sold. For example, historically, our net revenue has been generally higher in the second half of the year than in the first half of the year, although market conditions and product transitions could impact these trends. Many of the factors that create and affect quarterly and seasonal trends are beyond our control.

***If we cannot adequately protect our technology or other intellectual property in the United States and abroad, through patents, copyrights, trade secrets, trademarks and other measures, we may lose a competitive advantage and incur significant expenses.***

We rely on a combination of protections provided by contracts, including confidentiality and nondisclosure agreements, copyrights, patents, trademarks and common law rights, such as trade secrets, to protect our intellectual property. However, we cannot assure you that we will be able to adequately protect our technology or other intellectual property from third-party infringement or from misappropriation in the United States and abroad. Any patent licensed by us or issued to us could be challenged, invalidated, expire, or circumvented or rights granted thereunder may not provide a competitive advantage to us.

Furthermore, patent applications that we file may not result in issuance of a patent or, if a patent is issued, the patent may not be issued in a form that is advantageous to us. Despite our efforts to protect our intellectual property rights, others may independently develop similar products, duplicate our products or design around our patents and other rights. In addition, it is difficult to monitor compliance with, and enforce, our intellectual property on a worldwide basis in a cost-effective manner. In jurisdictions where foreign laws provide less intellectual property protection than afforded in the U.S. and abroad, our technology or other intellectual property may be compromised, and our business would be materially adversely affected.

***Unfavorable currency exchange rate fluctuations could adversely affect us.***

We have costs, assets and liabilities that are denominated in foreign currencies. As a consequence, movements in exchange rates could cause our foreign currency denominated expenses to increase as a percentage of revenue, affecting our profitability and cash flows. Whenever we believe appropriate, we hedge a portion of our foreign currency exposure to protect against fluctuations in currency exchange rates. We determine our total foreign currency exposure using projections of long-term expenditures for items such as payroll. We cannot assure you that these activities will be effective in reducing foreign exchange rate exposure. Failure to do so could have an adverse effect on our business, financial condition, results of operations and cash flow. In addition, the majority of our product sales are denominated in U.S. dollars. Fluctuations in the exchange rate between the U.S. dollar and the local currency can cause increases or decreases in the cost of our products in the local currency of such customers. An appreciation of the U.S. dollar relative to the local currency could reduce sales of our products.

**Operational and Technology Risks**

***We rely on third parties to manufacture our products, and if they are unable to do so on a timely basis in sufficient quantities and using competitive technologies, our business could be materially adversely affected.***

We utilize third-party wafer foundries to fabricate the silicon wafers for all of our products. We rely on Taiwan Semiconductor Manufacturing Company Limited (TSMC) for the production of all wafers for microprocessor and GPU products at 7 nanometer (nm) or smaller nodes, and we rely primarily on GLOBALFOUNDRIES Inc. (GF) for wafers for microprocessor and GPU products manufactured at process nodes larger than 7 nm. We also utilize TSMC, United Microelectronics Corporation (UMC) and Samsung Electronics Co., Ltd. for our integrated circuits (IC) in the form of programmable logic devices. We also rely on third-party manufacturers to assemble, test, mark and pack (ATMP) our products. Our third-party package assembly partners are responsible for packaging technology used to fabricate our products. It is important to have reliable relationships with all of these third-party manufacturing suppliers to ensure adequate product supply to respond to customer demand.



We cannot guarantee that these manufacturers or our other third-party manufacturing suppliers will be able to meet our near-term or long-term manufacturing requirements. If we experience supply constraints from our third-party manufacturing suppliers, we may be required to allocate the reduced quantities of affected products amongst our customers, which could have a material adverse effect on our relationships with these customers and on our financial condition. In addition, if we are unable to meet customer demand due to fluctuating or late supply from our manufacturing suppliers, it could result in lost sales and have a material adverse effect on our business. For example, if TSMC is not able to manufacture wafers for our microprocessor and GPU products at 7 nm or smaller nodes and our newest IC products in sufficient quantities to meet customer demand, it could have a material adverse effect on our business.

We do not have long-term commitment contracts with some of our third-party manufacturing suppliers. We obtain many of these manufacturing services on a purchase order basis and these manufacturers are not required to provide us with any specified minimum quantity of product beyond the quantities in an existing purchase order. Accordingly, we depend on these suppliers to allocate to us a portion of their manufacturing capacity sufficient to meet our needs, to produce products of acceptable quality and at acceptable manufacturing yields and to deliver those products to us on a timely basis and at acceptable prices. The manufacturers we use also fabricate wafers and ATMP products for other companies, including certain of our competitors. They could choose to prioritize capacity for other customers, increase the prices that they charge us on short notice, require onerous prepayments, or reduce or eliminate deliveries to us, which could have a material adverse effect on our business.

Other risks associated with our dependence on third-party manufacturers include limited control over delivery schedules, yield, cycle times, quality assurance, price increases, lack of capacity in periods of excess demand, misappropriation of our intellectual property, dependence on several subcontractors, and limited ability to manage inventory and parts. Moreover, if any of our third-party manufacturers (or their subcontractors) suffer any damage to facilities, lose benefits under material agreements, experience power outages, water shortages, or high heat events, lack sufficient capacity to manufacture our products, encounter financial difficulties, are unable to secure necessary raw materials from their suppliers, suffer any other disruption or reduction in efficiency, or experience uncertain environmental, social, atmospheric or natural, economic or political circumstances or conditions, we may encounter supply delays or disruptions. If we are unable to secure sufficient or reliable supplies of products, our ability to meet customer demand may be adversely affected and this could materially affect our business.

If we transition the production of some of our products to new manufacturers, we may experience delayed product introductions, lower yields or poorer performance of our products. If we experience problems with product quality or are unable to secure sufficient capacity from a particular third-party manufacturer, or if we for other reasons cease utilizing one of those manufacturers, we may be unable to timely secure an alternative supply for any specific product. We could experience significant delays in the shipment of our products if we are required to find alternative third-party manufacturers, which could have a material adverse effect on our business.

We are a party to a wafer supply agreement (WSA) with GF that governs the terms by which we purchase products manufactured by GF and this agreement is in place through 2025. GF will provide a minimum annual capacity allocation to us through 2025 and we have corresponding annual wafer purchase targets. If we do not meet the annual wafer purchase target, we will be required to pay to GF a portion of the difference between the actual wafer purchases and the wafer purchase target for such year. AMD and GF also have agreed to wafer pricing through 2025. We do not have any exclusivity commitments with GF, and we have full flexibility to contract with any wafer foundry with respect to all products manufactured at any technology node. If our actual wafer requirements are less than the number of wafers required to meet the applicable annual wafer purchase target, we could have excess inventory or higher inventory unit costs, both of which may adversely impact our gross margin and our results of operations. If GF fails to meet its minimum annual capacity allocation obligations, we could experience significant delays in the shipment of our products, which could have a material adverse effect on our business.

We are party to two ATMP joint ventures (collectively, the ATMP JVs) with affiliates of Tongfu Microelectronics Co., Ltd. The majority of our ATMP services are provided by the ATMP JVs and there is no guarantee that the ATMP JVs will be able to fulfill our long-term ATMP requirements. If we are unable to meet customer demand due to fluctuating or late supply from the ATMP JVs, it could result in lost sales and have a material adverse effect on our business.



***If essential equipment, materials, substrates or manufacturing processes are not available to manufacture our products, we could be materially adversely affected.***

We may purchase equipment, materials and substrates for use by our back-end manufacturing service providers from a number of suppliers and our operations depend upon obtaining deliveries of adequate supplies of equipment and materials on a timely basis. Our third-party suppliers also depend on the same timely delivery of adequate quantities of equipment and materials in the manufacture of our products. In addition, as many of our products increase in technical complexity, we rely on our third-party suppliers to update their processes in order to continue meeting our back-end manufacturing needs. Certain equipment and materials that are used in the manufacture of our products are available only from a limited number of suppliers, or in some cases, a sole supplier. We also depend on a limited number of suppliers to provide the majority of certain types of IC packages for our microprocessors, including our APU products. Similarly, certain non-proprietary materials or components such as memory, printed circuit boards (PCBs), interposers, substrates and capacitors used in the manufacture of our products are currently available from only a limited number of suppliers. If we are unable to procure a stable supply of memory, equipment, materials or substrates on an ongoing basis and at reasonable costs to meet our production requirements, we could experience a shortage in memory, equipment, materials or substrate supply or an increase in production costs, which could have a material adverse effect on our business. We have long-term purchase commitments and prepayment arrangements with some of our suppliers. If the delivery of such supply is delayed or does not occur for any reason, it could materially impact our ability to procure and process the required volume of supply to meet customer demand. Conversely, a decrease in customer demand could result in excess inventory and an increase in our production costs, particularly since we have prepayment arrangements with certain suppliers. Because some of the equipment and materials that we and our third-party manufacturers purchase are complex, it is sometimes difficult to substitute one equipment or materials supplier for another.

From time to time, suppliers may extend lead times, limit supply or increase prices due to capacity constraints or other factors. Also, some of these materials and components may be subject to rapid changes in price and availability. Interruption of supply or increased demand in the industry could cause shortages and price increases in various essential materials. Dependence on a sole supplier or a limited number of suppliers exacerbates these risks. If we are unable to procure certain of these materials for our back-end manufacturing operations, or our third-party manufacturers are unable to procure materials for manufacturing our products, our business would be materially adversely affected.

***Failure to achieve expected manufacturing yields for our products could negatively impact our results of operations.***

Semiconductor manufacturing yields are a result of product design, process technology and packaging technology, which is typically proprietary to the manufacturer, and low yields can result from design failures, packaging technology failures, process technology failures or a combination of some or all of these. Our third-party manufacturers are responsible for the process technologies used to fabricate silicon wafers. If our third-party manufacturers experience manufacturing inefficiencies or encounter disruptions, errors or difficulties during production, we may fail to achieve acceptable yields or we may experience product delivery delays. We cannot be certain that our third-party manufacturers will be able to develop, expand, obtain or successfully implement leading-edge manufacturing process or packaging technologies needed to manufacture future generations of our products profitably or on a timely basis or that our competitors will not develop new technologies, products or processes earlier. Moreover, during periods when our third-party manufacturers are implementing new process or packaging technologies, their manufacturing facilities may not be fully productive. A substantial delay in the technology transitions to smaller process technologies could have a material adverse effect on us, particularly if our competitors transition to more cost effective technologies before us. For example, we are presently focusing our 7 nm and lower product microprocessor and GPU portfolio on TSMC's processes. If TSMC is not able to manufacture wafers for our products at 7 nm or smaller nodes in sufficient quantities to meet customer demand, it could have a material adverse effect on our business. Moreover, we rely on TSMC, UMC and our other foundries to produce wafers with competitive performance attributes for our IC products. Therefore, the foundries, particularly TSMC which manufactures our newest IC products, must be able to transition to advanced manufacturing process technologies and increased wafer sizes, produce wafers at acceptable yields and deliver them in a timely manner.

Any decrease in manufacturing yields could result in an increase in per unit costs, which would adversely impact our gross margin and/or force us to allocate our reduced product supply amongst our customers, which could harm our relationships and reputation with our customers and materially adversely affect our business.

***The success of our business is dependent upon our ability to introduce products on a timely basis with features and performance levels that provide value to our customers while supporting and coinciding with significant industry transitions.***

Our success depends to a significant extent on the development, qualification, implementation and acceptance of new product designs and improvements that provide value to our customers. Our ability to develop, qualify and distribute, and have manufactured, new products and related technologies to meet evolving industry requirements, at prices acceptable to our customers and on a timely basis, are significant factors in determining our competitiveness in our target markets. We cannot assure you that our efforts to execute our product roadmap will result in innovative products and technologies that provide value to our customers. If we fail to or are delayed in developing, qualifying or shipping new products or technologies that provide value to our customers and address these new trends or if we fail to predict which new form factors, product features preferences or requirements, consumers will adopt and adjust our business accordingly, we may lose competitive positioning, which could cause us to lose market share and require us to discount the selling prices of our products. Although we make substantial investments in research and development, we cannot be certain that we will be able to develop, obtain or successfully implement new products and technologies on a timely basis or that they will be well-received by our customers. Moreover, our investments in new products and technologies involve certain risks and uncertainties and could disrupt our ongoing business. New investments may not generate sufficient revenue, may incur unanticipated liabilities and may divert our limited resources and distract management from our current operations. We cannot be certain that our ongoing investments in new products and technologies will be successful, will meet our expectations and will not adversely affect our reputation, financial condition and operating results. For example, as part of our Pervasive AI strategy, we have a portfolio of hardware products and software tools to allow our customers to develop scalable and pervasive AI solutions. We are increasingly building AI capabilities into our products, but if we fail to develop and timely offer such products and technologies or keep pace with the product offerings of our competitors, our business could be adversely affected. Additionally, our efforts in developing new AI technology solutions are inherently risky and may not always succeed. We may incur significant costs, resources, investments and delays and not achieve a return on investment or capitalize on the opportunities presented by demand for AI solutions. Moreover, while AI adoption is likely to continue and may accelerate, the long-term trajectory of this technological trend is uncertain.

Delays in developing, qualifying or shipping new products can also cause us to miss our customers' product design windows or, in some cases, breach contractual obligations or cause us to pay penalties. If our customers do not include our products in the initial design of their computer systems or products, they will typically not use our products in their systems or products until at least the next design configuration. The process of being qualified for inclusion in a customer's system or product can be lengthy and could cause us to further miss a cycle in the demand of end-users, which also could result in a loss of market share and harm our business. We also depend on the success and timing of our customers' platform launches. If our customers delay their product launches or if our customers do not effectively market their platforms with our products, it could result in a delay in bringing our products to market and cause us to miss a cycle in the demand of end-users, which could materially adversely affect our business. In addition, market demand requires that products incorporate new features and performance standards on an industry-wide basis. Over the life of a specific product, the sale price is typically reduced over time. The introduction of new products and enhancements to existing products is necessary to maintain the overall corporate average selling price. If we are unable to introduce new products with sufficiently high sale prices or to increase unit sales volumes capable of offsetting the reductions in the sale prices of existing products over time, our business could be materially adversely affected.

***Our revenue from our semi-custom SoC products is dependent upon our semi-custom SoC products being incorporated into customers' products and the success of those products.***

The revenue that we receive from our semi-custom SoC products is in the form of non-recurring engineering fees charged to third parties for design and development services and revenue received in connection with sales of our semi-custom SoC products to these third parties. As a result, our ability to generate revenue from our semi-custom products depends on our ability to secure customers for our semi-custom design pipeline, our customers' desire to pursue the project and our semi-custom SoC products being incorporated into those customers' products. Any revenue from sales of our semi-custom SoC products is directly related to sales of the third-party's products and reflective of their success in the market. Moreover, we have no control over the marketing efforts of these third parties, and we cannot make any assurances that sales of their products will be successful in current or future years. Consequently, the semi-custom SoC product revenue expected by us may not be fully realized and our operating results may be adversely affected.

***Our products may be subject to security vulnerabilities that could have a material adverse effect on us.***

The products that we sell are complex and have been and may in the future be subject to security vulnerabilities that could result in, among other things, the loss, corruption, theft or misuse of confidential data or system performance issues. Our efforts to prevent and address security vulnerabilities may decrease performance, be only partially effective or not successful at all. We may depend on vendors to create mitigations to their technology that we incorporate into our products and they may delay or decline to make such mitigations. We may also depend on third parties, such as customers and end users, to deploy our mitigations alone or as part of their own mitigations, and they may delay, decline or modify the implementation of such mitigations. Our relationships with our customers could be adversely affected as some of our customers may stop purchasing our products, reduce or delay future purchases of our products, or use competing products. Any of these actions by our customers could adversely affect our revenue. We have and may in the future be subject to claims and litigation related to security vulnerabilities. Actual or perceived security vulnerabilities of our products may subject us to adverse publicity, damage to our brand and reputation, and could materially harm our business or results of operations.

***IT outages, data loss, data breaches and cyberattacks could disrupt operations and compromise our intellectual property or other sensitive information, be costly to remediate or cause significant damage to our business, reputation, financial condition and results of operations.***

Our business relies on technology hardware, software, cloud services, infrastructure, networks and systems (collectively, IT Systems). We own and manage some IT Systems but also rely on critical third-party IT Systems, products and services. In the ordinary course of business, we and various third-party providers and business partners process and maintain sensitive data, including personal information about workers, customers and others, as well as intellectual property and proprietary or confidential information relating to our business and that of our customers and business partners (collectively, Confidential Data). Maintaining the availability, integrity and security of our IT Systems and Confidential Data is critical to our business and reputation. While we and others have implemented various controls and defenses, AMD and companies like AMD and our vendors and customers have been and are increasingly subject to cybersecurity attacks, risks and threats. Threat actors range in sophistication from individual hackers and insiders to ransom gangs and state-sponsored attackers. Cyber threats may be generic, or they may be custom-crafted against our IT Systems or supply chain. The increased prevalence of remote working arrangements at AMD and our providers present additional operational risks and attack vectors to our IT Systems. Our IT Systems and Confidential Data are vulnerable to a range of cybersecurity risks and threats, including malicious code that is added to widely available open-source software, compromised commercial software or security vulnerabilities in our products or systems, or those of a third party, that are being used by attackers prior to mitigations being put in place, such as zero-day attacks. Cyberattacks have and may come into our IT Systems through the compromise of user' access credentials. Users' access credentials can be compromised by phishing, vishing, smishing, multi-factor authentication (MFA) prompt bombing, hacking, or other social engineering, cybersecurity, or theft activities.

Threat actors are also increasingly using tools and techniques that circumvent controls, evade detection, and remove forensic evidence, which means that we and others may be unable to anticipate, detect, deflect, contain or recover from cyberattacks in a timely or effective manner. As AI capabilities improve and are increasingly adopted, we may see cyberattacks created through AI. These attacks could be crafted with an AI tool to directly attack IT Systems with increased speed and/or efficiency than a human threat actor or create more effective phishing emails. In addition, the threat could be introduced from the result of our or our customers and business partners incorporating the output of an AI tool that includes a threat, such as introducing malicious code by incorporating AI generated source code. Our network and storage applications, as well as those of our customers, business partners, and third-party providers, may be subject to unauthorized access by hackers or breached due to operator error, malfeasance or other system disruptions.

Cyberattacks that breach our security measures, or those of our third-party service providers, customers or business partners, could result in any or all of the following, which individually or collectively could materially adversely affect our financial condition, our competitive position; unauthorized access to, misuse or disclosure of Confidential Data (such as intellectual property, sensitive business information or personally identifiable information (PII)); reputational harm and/or diminution in our competitiveness; loss of existing and/or future customers; litigation and/or regulatory investigations or enforcement; significant remediation, restoration and compliance costs; and the diversion of management's attention and key information technology resources. In addition, many governments have enacted and are continuing to enact strict privacy and security laws, such as the UK's and European Union's General Data Protection Regulation (GDPR) and the California Consumer Privacy Act of 2018 (CCPA), as amended by the California Privacy Rights Act (CPRA), which provide for fines, penalties, and in the case of the CCPA and similar legislation, the basis for private claims for certain types of data breaches. We anticipate ongoing and increasing costs related to enhancing and implementing information security controls, including costs related to upgrading application, computer, and network security components; training workers to maintain and monitor our security controls; investigating, responding to and remediating any data security breach, and addressing any related litigation or regulatory proceedings; mitigating reputational harm; and complying with external regulations.

***We may encounter difficulties in operating our newly upgraded enterprise resource planning system, which could materially adversely affect us.***

We have recently upgraded our enterprise resource planning (ERP) system to help us manage our operations and financial reporting. Our newly upgraded ERP system may not operate as we expect it to and may cause disruption to our operations, which could have a material adverse effect on our business. Difficulties that may occur in connection with operating our newly upgraded ERP system include disruptions to business continuity, administrative or technical problems, difficulty in maintaining effective internal controls, and interruptions or delays to our sales processes. Any of these events could have an adverse effect on our business, operating results and financial condition.

***Uncertainties involving the ordering and shipment of our products could materially adversely affect us.***

We typically sell our products pursuant to individual purchase orders. We generally do not have long-term supply arrangements with our customers or minimum purchase requirements except that orders generally must be for standard pack quantities. Generally, our customers may cancel orders for standard products more than 30 days prior to shipment without incurring significant fees. We base our inventory levels in part on customers' estimates of demand for their products, which may not accurately predict the quantity or type of our products that our customers will want in the future or ultimately end up purchasing. Our ability to forecast demand is further complicated when our products are sold indirectly through downstream channel distributors and customers, as our forecasts for demand are then based on estimates provided by multiple parties throughout the downstream channel. To the extent we fail to forecast demand and product mix accurately or are unable to increase production or secure sufficient capacity and there is a mismatch between supply and demand for our products, it could limit our ability to meet customer demand and have a material adverse effect on our business. Many of our markets are characterized by short product lifecycles, which can lead to rapid obsolescence and price erosion. In addition, our customers may change their inventory practices on short notice for any reason. For example, our Client segment revenue decreased due to a decline in the PC market in the second half of 2022 and the first half of 2023, and our Embedded segment revenue decreased as a result of an inventory correction in several end markets in the second half of 2023. We may build inventories during periods of anticipated growth, and the cancellation or deferral of product orders or overproduction due to failure of anticipated orders to materialize could result in excess or obsolete inventory, which could result in write-downs of inventory and an adverse effect on gross margins. Our customers may also experience a shortage of, or delay in receiving certain components to build their products, which in turn may affect the demand for or the timing of our products. For instance, OEMs have and continue to experience industry-wide challenges securing matched component sets to build their products.

Excess or obsolete inventory have resulted in, and may in the future result in, write-downs of the value of our inventory. For example, in the third quarter of 2022, we recorded certain charges primarily for inventory, pricing and related reserves in the Gaming and Client segments. Factors that may result in excess or obsolete inventory, a reduction in the average selling price, or a reduction in our gross margin include: a sudden or significant decrease in demand for our products; a production or design defect in our products; a higher incidence of inventory obsolescence because of rapidly changing technology and customer requirements; a failure to accurately estimate customer demand for our products, including for our older products as our new products are introduced; or our competitors introducing new products or taking aggressive pricing actions.

***Our ability to design and introduce new products in a timely manner includes the use of third-party intellectual property.***

In the design and development of new and enhanced products, we rely on third-party intellectual property such as development and testing tools for software and hardware. Furthermore, certain product features may rely on intellectual property acquired from third parties that incorporate into our software or hardware. The design requirements necessary to meet customer demand for more features and greater functionality from semiconductor products may exceed the capabilities of the third-party intellectual property or development or testing tools available to us. If the third-party intellectual property that we use becomes unavailable, is not available with required functionality or performance in the time frame, manufacturing technology, or price point needed for our new products or fails to produce designs that meet customer demands, or laws are adopted that affect our use of third party intellectual property in certain regions or products, our business could be materially adversely affected.

***We depend on third-party companies for the design, manufacture and supply of motherboards, software, memory and other computer platform components to support our business and products.***

We depend on third-party companies for the design, manufacture and supply of motherboards, graphics cards, software (e.g., BIOS, operating systems, drivers), memory and other components that we use to design, support and sell, and our customers utilize to support and/or use our product offerings. We also rely on our AIB partners to support our products. In addition, our microprocessors are not designed to function with motherboards and chipsets designed to work with Intel microprocessors. If the designers, manufacturers, AIBs and suppliers of motherboards, graphics cards, software, memory and other components cease or reduce their design, manufacture or production of current or future products that are based on, utilized in, or support our products, or laws are adopted that result in the same, our business could be materially adversely affected.

***If we lose Microsoft Corporation's support for our products or other software vendors do not design and develop software to run on our products, our ability to sell our products could be materially adversely affected.***

Our ability to innovate beyond the x86 instruction set controlled by Intel depends partially on Microsoft designing and developing its operating systems to run on or support our x86-based microprocessor products. With respect to our graphics products, we depend in part on Microsoft to design and develop its operating system to run on or support our graphics products. Similarly, the success of our products in the market, such as our APU products, is dependent on independent software providers designing and developing software to run on our products. If Microsoft does not continue to design and develop its operating systems so that they work with our x86 instruction sets or does not continue to develop and maintain their operating systems to support our graphics products, independent software providers may forego designing their software applications to take advantage of our innovations and customers may not purchase PCs with our products. In addition, some software drivers licensed for use with our products are certified by Microsoft. If Microsoft did not certify a driver, or if we otherwise fail to retain the support of Microsoft or other software vendors, our ability to market our products would be materially adversely affected.

***Our reliance on third-party distributors and AIB partners subjects us to certain risks.***

We market and sell our products directly and through third-party distributors and AIB partners pursuant to agreements that can generally be terminated for convenience by either party upon prior notice. These agreements are non-exclusive and permit both our distributors and AIB partners to offer our competitors' products. We are dependent on our distributors and AIB partners to supplement our direct marketing and sales efforts. If any significant distributor or AIB partner or a substantial number of our distributors or AIB partners terminated their relationship with us, decided to market our competitors' products over our products or decided not to market our products at all, our ability to bring our products to market would be impacted and we would be materially adversely affected. We extend credit to certain of our distributors and AIB partners. If we are unable to collect accounts receivable from our significant distributors and/or AIB partners or incur higher allowances for credit losses, it could have a material adverse effect on our business. If we are unable to manage the risks related to the use of our third-party distributors and AIB partners or offer appropriate incentives to focus them on the sale of our products, our business could be materially adversely affected.

Additionally, distributors and AIB partners typically maintain an inventory of our products. In most instances, our agreements with distributors protect their inventory of our products against price reductions, as well as provide return rights for any product that we have removed from our price book that is less than 12 months older than the manufacturing date. Some agreements with our distributors also contain standard stock rotation provisions permitting limited levels of product returns. Our agreements with AIB partners protect their inventory of our products against price reductions. In the event of a significant decline in the price of our products, the price protection rights we offer would materially adversely affect us because our revenue and corresponding gross margin would decline.

***Our business is dependent upon the proper functioning of our internal business processes and information systems and modification or interruption of such systems may disrupt our business, processes and internal controls.***

We rely upon a number of internal business processes and information systems to support key business functions, and the efficient operation of these processes and systems is critical to our business. Our business processes and information systems need to be sufficiently scalable to support the growth of our business and may require modifications or upgrades that expose us to a number of operational risks. As such, our information systems will continually evolve and adapt in order to meet our business needs. These changes may be costly and disruptive to our operations and could impose substantial demands on management time.

These changes may also require changes in our information systems, modification of internal control procedures and significant training of employees and third-party resources. We continuously work on simplifying our information systems and applications through consolidation and standardization efforts. There can be no assurance that our business and operations will not experience any disruption in connection with this transition. Our information technology systems, and those of third-party information technology providers or business partners, may also be vulnerable to damage or disruption caused by circumstances beyond our control including catastrophic events, power anomalies or outages, natural disasters, viruses or malware, cyberattacks, insider threat attacks, unauthorized system or data modifications, data breaches and computer system or network failures, exposing us to significant cost, reputational harm and disruption or damage to our business.

In addition, as our IT environment continues to evolve, we are embracing new ways of communicating and sharing data internally and externally with customers and partners using methods such as mobility and the cloud that can promote business efficiency. However, these practices can also result in a more distributed IT environment, making it more difficult for us to maintain visibility and control over internal and external users, and meet scalability and administrative requirements. If our security controls cannot keep pace with the speed of these changes or if we are not able to meet regulatory and compliance requirements, our business would be materially adversely affected.

***If our products are not compatible with some or all industry-standard software and hardware, we could be materially adversely affected.***

Our products may not be fully compatible with some or all industry-standard software and hardware. Further, we may be unsuccessful in correcting any such compatibility problems in a timely manner. If our customers are unable to achieve compatibility with software or hardware, we could be materially adversely affected. In addition, the mere announcement of an incompatibility problem relating to our products could have a material adverse effect on our business.

***Costs related to defective products could have a material adverse effect on us.***

Products as complex as those we offer may contain defects or failures when first introduced or when new versions or enhancements to existing products are released. We cannot assure you that, despite our testing procedures, errors will not be found in new products or releases after commencement of commercial shipments in the future, which could result in loss of or delay in market acceptance of our products, material recall and replacement costs, loss of revenue, writing down the inventory of defective products, the diversion of the attention of our engineering personnel from product development efforts, defending against litigation related to defective products or related liabilities, including property damage, personal injury, damage to our reputation in the industry and loss of data or intangible property, and could adversely affect our relationships with our customers. In addition, we may have difficulty identifying the end customers of the defective products in the field. As a result, we could incur substantial costs to implement modifications to correct defects. Any of these problems could materially adversely affect our business.

We could be subject to potential product liability claims if one of our products causes, or merely appears to have caused, an injury, whether tangible or intangible. Claims may be made by consumers or others selling our products, and we may be subject to claims against us even if an alleged injury is due to the actions of others. A product liability claim, recall or other claim with respect to uninsured liabilities or for amounts in excess of insured liabilities could have a material adverse effect on our business.

***If we fail to maintain the efficiency of our supply chain as we respond to changes in customer demand for our products, our business could be materially adversely affected.***

Our ability to meet customer demand for our products depends, in part, on our ability to deliver the products our customers want on a timely basis. Accordingly, we rely on our supply chain for the manufacturing, distribution and fulfillment of our products. As we continue to grow our business, expand to high-growth adjacent markets, acquire new customers and strengthen relationships with existing customers, the efficiency of our supply chain will become increasingly important because many of our customers tend to have specific requirements for particular products, geographic requirements, and specific time-frames in which they require delivery of these products. If we are unable to consistently deliver the right products to our customers on a timely basis in the right locations, our customers may reduce the quantities they order from us, which could have a material adverse effect on our business.

***We outsource to third parties certain supply-chain logistics functions, including portions of our product distribution, transportation management and information technology support services.***

We rely on third-party providers to operate our regional product distribution centers and to manage the transportation of our work-in-process and finished products among our facilities, to our third-party manufacturers and to our customers. In addition, we rely on third parties to provide certain information technology services to us, including help desk support, desktop application services, business and software support applications, server and storage administration, data center operations, database administration and voice, video and remote access. We cannot guarantee that these providers will fulfill their respective responsibilities in a timely manner in accordance with the contract terms, in which case our internal operations and the distribution of our products to our customers could be materially adversely affected. Also, we cannot guarantee that our contracts with these third-party providers will be renewed, in which case we would have to transition these functions in-house or secure new providers, which could have a material adverse effect on our business if the transition is not executed appropriately.

***Our inability to effectively control the sales of our products on the gray market could have a material adverse effect on us.***

We market and sell our products directly to OEMs and through authorized third-party distributors. From time to time, our products are diverted from our authorized distribution channels and are sold on the "gray market." Gray market products result in shadow inventory that is not visible to us, thus making it difficult to forecast demand accurately. Also, when gray market products enter the market, we and our distribution channels compete with these heavily discounted gray market products, which adversely affects demand for our products and negatively impacts our margins. In addition, our inability to control gray market activities could result in customer satisfaction issues because any time products are purchased outside our authorized distribution channels there is a risk that our customers are buying counterfeit or substandard products, including products that may have been altered, mishandled or damaged, or are used products represented as new.



***Climate change may have a long-term impact on our business.***

Climate change may have an adverse impact on our business and the business of our suppliers and customers. Global climate change may result in certain natural disasters and climate-related events occurring with increasing frequency and severity and its physical impact on the U.S., China and other major regions where we have operations has the potential to disrupt our business and those of our customers and suppliers. Our headquarters and some of our operations and facilities are located in areas that are susceptible to earthquakes and tsunamis, wildfires, extreme storms, extreme heat, drought, freezing and other natural disasters. Water and energy availability and reliability in the regions where we have facilities and where our suppliers have operations is important to our business. Certain natural disasters, including drought, wildfires, storms, sea-level rise and flooding could disrupt the availability of water necessary for the operations of our business or those of our suppliers and customers. Global climate change may also result in chronic changes that result in certain natural disasters occurring more frequently or with greater intensity, which could disrupt our operations, or the operations of our third parties. Such disruptions could cause delays in manufacturing or shipping our products, affect our supply chain and may result in the loss of business, and additional costs to maintain or resume operations, any of which could adversely affect our business and results of operation. We may also experience contractual disputes relating to supply chain delays resulting from climate change related disruptions, which could result in increased litigation and costs. Data centers depend on access to clean water and reliable energy, thus potential power or water shortages could impair our customer's ability to expand their data center capacity and consume our products and services.

Although we maintain insurance coverage for a variety of property, casualty, and other risks, the types and amounts of insurance we obtain vary depending on coverage, availability and cost. Some of our policies have large deductibles and broad exclusions. Additionally, our insurance providers may be unable or unwilling to pay a claim. Losses not covered by insurance may be large, which could harm our results of operations and financial condition.

Our business and the business of our suppliers and customers may also be subject to further climate-related regulations, contract terms and lawsuits. New increased regulations regarding carbon taxes, greenhouse gas emissions, fuel or energy taxes and other climate-related risks could result in greater costs; for example, as a result of carbon pricing impacts on electrical utilities and/or necessitating that we purchase more renewable energy than otherwise planned. Our supply chain manufacturing suppliers may be exposed to increased costs of doing business should they be affected by new climate-related expectations such as those affecting abatement equipment, renewable energy, and/or alter production processes and materials selections. The additional compliance costs incurred by our suppliers may be passed on to us and result in greater indirect costs to us. These costs and restrictions could harm our business and results of operations by increasing our expenses, impacting our reputation if there is actual or perceived non-compliance, or requiring us to alter our operations and products. The long-term effects of climate change on the global economy and the technology industry are unclear but could be severe.

**Legal and Regulatory Risks**

***Government actions and regulations such as export regulations, tariffs, and trade protection measures may limit our ability to export our products to certain customers.***

We have equity interests in two joint ventures (collectively, the THATIC JV) with Higon Information Technology Co., Ltd. (THATIC), a third-party Chinese entity. In June 2019, the Bureau of Industry and Security (BIS) of the United States Department of Commerce added certain Chinese entities to the Entity List, including THATIC and the THATIC JV. Since that time, the United States administration has called for changes to domestic and foreign policy, including policies with respect to China and Russia. Specifically, United States-China trade relations remain uncertain as the United States continues to add more Chinese companies to the Entity List and more regulations targeted to advanced computing, semiconductor manufacturing, and emerging technologies such as AI. Further, the United States and other countries and coalitions have issued sanctions and revisions to export control and other regulations against Russia, Belarus and the DNR and LNR regions of Ukraine, due to the conflict in Ukraine.



In October 2023, BIS issued new requirements for certain advanced computing items that apply to the export of products classified ECCN 3A090 or 4A090 to a party headquartered in, or with an ultimate parent headquartered in, any of Country Groups D1, D4 or D5, including China. These controls prevent us from shipping our AMD Instinct™ MI250, MI300X, MI300A, MI388X integrated circuits and our Versal™ VC2802, VE2802 FPGAs to China, or to customers outside of the United States whose ultimate parent is headquartered in a D5 country (including China), without a license. These controls also require us to file a Notified Advanced Computing (NAC) notification with BIS 25 days before shipping certain Versal VC2602 and VE2602 FPGAs to China, or to customers outside of the United States whose ultimate parent is headquartered in a D5 country (including China). In December 2023, BIS published a series of frequently asked questions indicating an intent to revise certain sections of the controls issued in October. Such revisions may bring certain other products including the AMD Instinct MI210 into the NAC notification requirement. The NAC notification process could result in BIS prohibiting a shipment or requiring a license application before shipping a product that is the subject of a NAC notification. BIS may issue new licensing requirements and regulatory controls in the future. Even new products that fall below the licensing thresholds may not be successful because we have no assurances BIS will agree that the alternative products are not subject to the new licensing requirements or that future regulations will not control the alternative products. A significant trade disruption or the establishment or increase of any tariffs, trade protection measures or restrictions, or retaliatory actions from foreign governments could result in lost sales adversely impacting our reputation and business. There is also a possibility of future tariffs, trade protection measures, import or export regulations or other restrictions imposed on our current and future products, customers, or suppliers by the United States, China or other countries that could have a material adverse effect on our business. New export control restrictions may adversely impact the ability of our research and development teams located outside of the United States from executing our product roadmaps in a timely manner or at all. In addition, deemed export restrictions could further affect our ability to provide services or develop products in the United States.

We may, from time to time, receive technical data from third parties that is subject to the International Traffic and Arms Regulations (ITAR), which are administered by the U.S. Department of State. Export Administration Regulation (EAR) governs the export and re-export of certain AMD products, including FPGAs, as well as the transfer of related technologies or provision of services, whether in the U.S. or abroad. We are required to maintain an internal compliance program and security infrastructure to meet EAR and ITAR requirements. An inability to obtain the required export licenses, or to predict when or pursuant to which conditions they will be granted, increases the difficulties of forecasting shipments. When we file license applications or Notification Advanced Computing (NAC) exception notices we have no assurance that BIS will grant any exemptions or licenses or that the BIS will act on the filings in a timely manner. Even if BIS grants a requested license, the license may come with burdensome conditions that we cannot or decide not to fulfill. In addition, security or compliance program failures that could result in penalties or a loss of export privileges, as well as stringent licensing restrictions that may make our products less attractive to overseas customers, could have a material adverse effect on our business, financial condition and/or operating results.

***If we cannot realize our deferred tax assets, our results of operations could be adversely affected.***

Our deferred tax assets include net operating losses and tax credit carryforwards that can be used to offset taxable income and reduce income taxes payable in future periods. Each quarter, we consider both positive and negative evidence to determine whether all or a portion of the deferred tax assets are more likely than not to be realized. If we determine that some or all of our deferred tax assets are not realizable, it could result in a material expense in the period in which this determination is made which may have a material adverse effect on our financial condition and results of operations.

In addition, a significant amount of our deferred tax assets related to net operating losses or tax credits which remain under a valuation allowance could be subject to limitations under Internal Revenue Code Section 382 or 383, separate return loss year rules, or dual consolidated loss rules. The limitations could reduce our ability to utilize the net operating losses or tax credits before the expiration of the tax attributes.

***Our business is subject to potential tax liabilities, and exposure to greater-than-anticipated income tax liabilities as a result of changes in tax rules and regulations, changes in interpretation of tax rules and regulations, or unfavorable assessments from tax audits, could affect our effective tax rates, financial condition, and results of operations.***

We are a U.S.-based multinational company subject to income tax, indirect tax or other tax claims in multiple U.S. and foreign tax jurisdictions in which we conduct business. Significant judgment is required in determining our worldwide provision for income taxes. Tax laws are dynamic and subject to change as new laws are passed and new interpretations of the law are issued or applied. Any changes to tax laws could have a material adverse effect on our tax obligations and effective tax rate. Our income tax obligations could be affected by many factors, including, but not limited to, changes to our corporate operating structure, intercompany arrangements, and tax planning strategies.

Our income tax expense is computed based on tax rates enacted at the time of the respective financial period. Our future effective tax rates, financial condition and results from operations could be unfavorably affected by changes in the tax rates in jurisdictions where our income is earned, by changes in the tax rules and regulations or the interpretation of tax rules and regulations in the jurisdictions in which we do business or by changes in the valuation of our deferred tax assets. Many countries have started to implement legislation and other guidance to align their international tax rules with the Organization for Economic Cooperation and Development's (OECD) Base Erosion and Profit Shifting recommendations and action plan that aim to standardize and modernize global corporate tax policy, including changes to cross-border tax, transfer pricing documentation rules, and nexus-based tax incentive practices. The OECD is also continuing discussions surrounding fundamental changes in allocation of profits among tax jurisdictions in which companies do business, as well as the implementation of a global minimum tax (namely the "Pillar One" and "Pillar Two" proposals). The Council of the European Union has adopted the global corporate 15% minimum tax as provided for in Pillar Two and has directed EU member states to implement legislation enacting Pillar Two. Many countries, including non-EU member states, have implemented laws based on Pillar Two proposals, which may materially adversely impact our provision for income taxes, net income and cash flows. As a result of this heightened scrutiny, prior decisions by tax authorities regarding treatments and positions of corporate income taxes could be subject to review and inquiry, which could also result in changes in tax policies or existing tax rulings, and may have a material adverse effect on us.

In addition, we are subject to examinations of our income tax returns by domestic and foreign tax authorities. We regularly assess the likelihood of outcomes resulting from these examinations to determine the adequacy of our provision for income taxes and have reserved for potential adjustments that may result from the current examinations. There can be no assurance that the final determination of any of these examinations will not have an adverse effect on our effective tax rates, financial condition, and results of operations.

In the ordinary course of our business, there are many transactions and calculations where the ultimate income tax, indirect tax, or other tax determination is uncertain. Although we believe our tax estimates are reasonable, we cannot assure that the final determination of any tax audits or litigation will not be materially different from that which is reflected in historical tax provisions and accruals. Should additional taxes be assessed as a result of an audit, assessment or litigation, there could be a material adverse effect on our cash, tax provisions and results of operations in the period or periods for which that determination is made.

***We are party to litigation and may become a party to other claims or litigation that could cause us to incur substantial costs or pay substantial damages or prohibit us from selling our products.***

From time to time, we are a defendant or plaintiff in various legal actions, as described in Note 17 - Contingencies of the Notes to our Consolidated Financial Statements. For example, we have been subject to certain claims concerning federal securities laws and corporate governance. Our products are purchased by and/or used by consumers, which could increase our exposure to consumer actions such as product liability claims and consumer class action claims. On occasion, we receive claims that individuals were allegedly exposed to substances used in our former semiconductor wafer manufacturing facilities and that this alleged exposure caused harm. Litigation can involve complex factual and legal questions, and its outcome is uncertain. It is possible that if a claim is successfully asserted against us, it could result in the payment of damages that could be material to our business.

With respect to intellectual property litigation, from time to time, we have been notified of, or third parties may bring or have brought, actions against us and/or against our customers based on allegations that we are infringing the intellectual property rights of others, contributing to or inducing the infringement of the intellectual property rights of others, improperly claiming ownership of intellectual property or otherwise improperly using the intellectual property of others. If any such claims are asserted, we may seek to obtain a license under the third parties' intellectual property rights. We cannot assure you that we will be able to obtain all of the necessary licenses on satisfactory terms, if at all. These parties may file lawsuits against us or our customers seeking damages (potentially up to and including treble damages) or an injunction against the sale of products that incorporate allegedly infringed intellectual property or against the operation of our business as presently conducted, which could result in our having to stop the sale of some of our products or to increase the costs of selling some of our products or which could damage our reputation. The award of damages, including material royalty payments, or other types of damages, or the entry of an injunction against the manufacture and sale of some or all of our products could have a material adverse effect on us. We could decide, in the alternative, to redesign our products or to resort to litigation to challenge such claims. Such challenges could be extremely expensive and time-consuming regardless of their merit, could cause delays in product release or shipment and/or could have a material adverse effect on us. We cannot assure you that litigation related to our intellectual property rights or the intellectual property rights of others can always be avoided or successfully concluded.

Even if we were to prevail, any litigation could be costly and time-consuming and would divert the attention of our management and key personnel from our business operations, which could have a material adverse effect on us.

***We are subject to environmental laws, conflict minerals-related provisions of the Dodd-Frank Wall Street Reform and Consumer Protection Act as well as a variety of other laws or regulations that could result in additional costs and liabilities.***

Our operations and properties are subject to various United States and foreign laws and regulations, including those relating to materials used in our products and the manufacturing processes of our products, discharge of pollutants into the environment, the treatment, transport, storage and disposal of solid and hazardous wastes and remediation of contamination. In addition, our operations and those of our suppliers are further governed by regulations prohibiting the use of forced labor (e.g., mining conflict materials), and restrictions on other materials, as well as laws or regulations governing the operation of our facilities, sale and distribution of our products, and real property. For the manufacturing of our products, these laws and regulations require our suppliers to obtain permits for operations, including the discharge of air pollutants and wastewater. Although our management systems are designed to oversee our suppliers' compliance, we cannot assure you that our suppliers have been or will be in complete compliance with such laws, regulations and permits. If our suppliers violate or fail to comply with any of them, a range of consequences could result, including fines, suspension of production, alteration of manufacturing processes, import/export restrictions, sales limitations, criminal and civil liabilities or other sanctions. Such non-compliance from our manufacturing suppliers could result in disruptions in supply, higher sourcing costs, and/or reputational damage for us. We could also be held liable for any and all consequences arising out of exposure to hazardous materials used, stored, released, disposed of by us or located at, under or emanating from our current or former facilities or other environmental or natural resource damage. We have been named as a responsible party at three Superfund sites in Sunnyvale, California and we are subject to Final Site Clean-up Requirements Orders from the California Regional Water Quality Control Board relating to the three sites and we have entered into settlement agreements with other responsible parties on two of the orders. During the term of such agreements, other parties have agreed to assume most of the foreseeable costs as well as the primary role in conducting remediation activities under the orders. We remain responsible for additional costs beyond the scope of the agreements as well as all remaining costs in the event that the other parties do not fulfill their obligations under the settlement agreements. The progress of future remediation efforts cannot be predicted with certainty and these costs may change. Although we have not been, we could be named a potentially responsible party at other Superfund or contaminated sites in the future. In addition, contamination that has not been identified could exist at our other facilities.

Future environmental legal requirements may become more stringent or costly. As such, the costs of complying with current and future environmental and health and safety laws, and our liabilities arising from past and future releases of, or exposure to, hazardous substances may increase and could have a material adverse effect on us.

Environmental laws are complex, change frequently and tend to become more stringent over time. For example, the European Union (EU) and China are among a growing number of jurisdictions that have enacted restrictions on the use of lead and other materials in electronic products. These regulations affect semiconductor devices and packaging. As regulations restricting materials in electronic products continue to increase around the world, there is a risk that the cost, quality and manufacturing yields of products that are subject to these restrictions may be less favorable compared to products that are not subject to such restrictions, or that the transition to compliant products may not meet customer roadmaps, or produce sudden changes in demand, which may result in excess inventory. Jurisdictions including the EU, Australia, California and China are developing or have finalized market entry or public procurement regulations for computers and servers based on ENERGY STAR specifications, and the like, as well as additional energy consumption limits. Certain of our products may be excluded from some of these markets which could materially adversely affect us.

We incur costs associated with complying with conflict minerals reporting requirements to our customers and the SEC. In addition to the SEC regulation, the EU, China and other jurisdictions are developing new policies focused on conflict minerals that may impact and increase the cost of our compliance program. Customers are increasingly seeking information about the source of minerals used in our supply chain beyond those addressed in laws and regulations. Given the complexity of mineral supply chains, we may be unable to sufficiently verify the origins of the subject minerals and thus our reputation may be harmed. Moreover, we are likely to encounter challenges to satisfy customers who require that all of the components of our products be certified as "conflict free." If we cannot satisfy these customers, they may choose a competitor's products. In addition, new or increased regulations limiting the use of such components, or regulation regarding greenhouse gas emissions and climate change-related risks, could increase our energy costs, for example as a result of carbon pricing impacts on electrical utilities and/or necessitating that we purchase more renewable energy than otherwise planned. Our supply chain manufacturing suppliers may be exposed to increased cost of doing business should they be affected by new climate-related regulations, for example, affecting abatement equipment, renewable energy, and/or alter production processes and materials selections.

In addition to our Company, customers, governments and authorities continue to focus on eliminating risks of forced labor in supply chains which may increase the cost of our compliance program. Several customers have also issued expectations to eliminate these occurrences, if any, that may impact us. While we have a Human Rights Policy and management systems to identify and avoid these practices in our supply chain, we cannot guarantee that our suppliers will always be in conformance with laws and expectations. Our failure to satisfy customer expectations on forced and trafficked labor policies may result in these customers choosing a competitor's product or enforcement liability and reputational challenges.

In addition, many governments have enacted laws around PII, such as the GDPR and the CCPA, and the failure to comply could result in sanctions or other actions by the governments. The GDPR imposes significant requirements on how we collect, process and transfer personal data, as well as significant fines for non-compliance.

New emerging technology trends, such as AI, require us to keep pace with evolving regulations and industry standards. Given the complexity and rapid development of AI, there are various current and proposed regulatory frameworks relating to the use of AI in products and services in the U.S. and foreign jurisdictions such as the EU. For example, in the EU, an AI act is being considered. Such laws and regulations may impede our ability to offer certain products and services in certain jurisdictions if we are unable to comply with them. We expect that the legal and regulatory environment relating to emerging technologies such as AI will continue to develop and could increase the cost of doing business, and create compliance risks and potential liability, all which may have a material adverse effect on our financial condition and results of operations. Governments are also considering the new issues in intellectual property law that AI creates, which could result in different intellectual property rights in technology we create with AI and development processes and procedures and could have a material adverse effect on our business.

***Evolving expectations from governments, investors, customers and other stakeholders regarding corporate responsibility matters could result in additional costs, harm to our reputation and a loss of customers.***

There are evolving expectations from governments, investors, customers and other stakeholders regarding corporate responsibility matters including those involving the environment and climate, energy and water consumption, diversity and inclusion, human rights and cybersecurity. This development on corporate responsibility is resulting in increased mandatory and voluntary reporting standards and disclosures. For example, various jurisdictions have adopted or are contemplating adopting legislation and regulations that may impact how we and our suppliers and customers conduct business or report on business by requiring the disclosure and tracking of greenhouse gas emissions, climate change-related risks and other sustainability matters related to our business. As the nature, scope and complexity of corporate responsibility reporting and disclosure requirements continue to evolve, we may incur additional compliance costs and indirect compliance costs from our customers and suppliers that are passed on to us. In addition, certain corporate responsibility legislation and regulation may require us to adapt our business or supply chain in ways that are costly or inefficient. Emerging legal and regulatory requirements, can be unpredictable, are subject to change, and may be difficult for us to comply with given the complexity of our supply chain and our outsourced manufacturing. Our failure to comply, or the appearance of our failure to comply, with these legal and regulatory requirements can result in regulatory penalties, fines and legal liabilities, increase costs, and harm our reputation – any of which could have a material adverse effect on our business, financial condition and results of operation. In addition, while we may at times engage in voluntary initiatives (such as voluntary disclosures, certifications, or targets, among others) or commitments to improve our corporate responsibility profile and/or products or to respond to stakeholder expectations, such initiatives or achievement of such commitments may be costly, may not have the desired effect or may impact our reputation with other stakeholders and have a material adverse effect on our business.

We have publicly announced certain corporate responsibility goals spanning multiple topics informed by input from various of our stakeholders, including customers, investors and employees. These goals, which reflect our current plans and aspirations based on known conditions; thus, in the future they may change or may not be achieved. We may not achieve, for instance, our stated 30x25 energy efficiency goal to deliver a 30x increase in energy efficiency by 2025, for our processors and accelerators powering servers for high-performance computing and AI training from a 2020 baseline. We are also pursuing and annually reporting our progress toward a science-based target (aligned with a 1.5°C scenario) of a 50% absolute reduction in greenhouse gas emissions from our operations (Scope 1 and 2) by 2030, from a 2020 base year. Our achievement of these goals, aspirations and other corporate responsibility initiatives is not certain and is subject to various challenges, risks and expectations such as standards, processes, and methodologies that continue to evolve or emerge. Our progress towards some goals receive third-party limited assurance and not reasonable assurance, or may rely on receipt of others' information and data that may not be subject to either third-party limited or reasonable assurance. Any failure to achieve such goals (or achieve these goals within the set timeframe) or the perception by stakeholders of such failure to achieve these goals may result in reputational or financial harm. Simultaneously, there are efforts by some stakeholders to reduce companies' efforts on certain environmental, social and sustainability-related matters. Both advocates and opponents to these matters are increasingly resorting to a range of activism forms, including media campaigns and litigation, to advance their perspectives. To the extent we are subject to such activism or litigation, it may require us to incur costs or otherwise adversely impact our business. Additionally, stakeholder groups may find our stated goals to be insufficiently responsive to the implications of issues, such as climate change, and any failure to set or achieve corporate responsibility initiatives that meet stakeholder expectations may result in loss of customers or in investors selling their shares, which could harm our reputation and could have a material adverse effect on our business.

***Issues related to the responsible use of AI may result in reputational, competitive and financial harm and liability.***

We offer products that include capabilities to support AI deployment and we expect this part of our business to grow. As with many new emerging technologies, AI presents risks and challenges and increasing ethical concerns relating to its responsible use that could affect the adoption of AI, and thus our business. Third-party misuse of AI applications, models, or solutions, or ineffective or inadequate AI development or deployment practices by us or our customers, could cause harm to individuals or society and impair the public's acceptance of AI. Moreover, we may be subject to competitive harm, regulatory action and legal liability as a result of new proposed legislation regulating AI, new applications of existing data protection, privacy and intellectual property and other laws. Such regulations could cause us to incur greater compliance costs and could also impact our ability to sell or the ability of our customers and users worldwide to acquire, deploy and use systems that include our AI-related products and services, which could thus require us to change our business practices and could adversely affect our business, financial condition and results of operations. If the AI-related products that we offer have unintended consequences or unintended usage or customization by our customers or are otherwise controversial due to their perceived or actual impact on human rights, privacy, employment or other social, economic or political issues the public's acceptance of AI may be impaired and may result in reputational and financial harm and liability to our business.

**Merger, Acquisition and Integration Risks**

***Acquisitions, joint ventures, and/or investments, and the failure to integrate acquired businesses, may fail to materialize their anticipated benefits and could disrupt our business, which could adversely affect our results of operation and financial condition.***

We have acquired and invested in businesses, and may continue to do so, that offer products, services and technologies that we believe will help expand our product offerings and grow our business in response to changing technologies, customer demands and competitive pressures. Acquisitions or joint ventures include numerous risks including our inability to identify suitable opportunities in a timely manner or on terms acceptable to us; failure to complete a transaction in a timely manner, or at all, due to our inability to obtain required government or other approvals or IP disputes or other litigation; difficulty in obtaining financing on terms acceptable to us or at all; or other unforeseen factors. Even if we successfully complete an acquisition or joint venture, we may not be able to realize any of the anticipated benefits in a timely manner or at all for a variety of reasons, including, but not limited to: difficulty in integrating the technology, systems, products, policies, processes or operations and integrating and retaining the employees including key personnel of the acquired business; diversion of capital and other resources, including management's attention from our existing business; unanticipated costs or liabilities, such as increased interest expense and compliance with debt covenants or other obligations; coordinating and integrating in countries in which we have not previously operated; the potential impact of the acquisitions on our relationships with employees, vendors, suppliers and customers; our inability to effectively retain suppliers, vendors and customers of the acquired businesses; entry into geographic or business markets in which we have little or no experience; adverse changes in general economic conditions in regions in which we and the acquired companies operate; potential litigation associated with the acquisitions; difficulties in the assimilation of employees and culture; difficulties in managing the expanded operations of a larger and more complex company; and difficulties with integrating and upgrading our and the acquired companies' financial reporting systems. Any one of these factors could have a material adverse effect on our business, financial condition, results of operations, or cash flows.

In addition, to complete an acquisition, we may issue equity securities, which would dilute our stockholders' ownership and could adversely affect the price of our common stock, and/or incur debt, assume contingent liabilities or have amortization expenses and write-downs of acquired assets, which could adversely affect our results of operations.

Moreover, we may not adequately assess the risks of new business initiatives and subsequent events may arise that alter the risks that were initially considered. Acquisitions, joint ventures and other investments involve significant challenges and risks and could impair our ability to grow our business, develop new products or sell our products, which could have a negative impact on our results of operations. Acquisitions or joint ventures may also reduce our cash available for operation and other uses which could harm our business. For example, the majority of our ATMP services are provided by the ATMP JVs, and there is no guarantee that the JVs will be able to fulfill our long-term ATMP requirements. If we are unable to meet customer demand due to fluctuating or late supply from the ATMP JVs, it could result in lost sales and have a material adverse effect on our business. We may not realize the expected benefits from the THATIC JV's expected future performance, including the receipt of any future milestone payments and any royalties from certain licensed intellectual property. In June 2019, the BIS added certain Chinese entities to the Entity List, including THATIC and the THATIC JV. We are complying with U.S. law pertaining to the Entity List designation.

Furthermore, we may at times invest in private companies to further our strategic objectives and to support certain key business initiatives. Many of the instruments that we invest in are non-marketable and illiquid at the time of our initial investment, and we are not always able to achieve a return. To the extent any of the companies in which we invest in are not successful, we could recognize an impairment and/or lose all or part of our investment.

***Any impairment of our tangible, definite-lived intangible or indefinite-lived intangible assets, including goodwill, may adversely impact our financial position and results of operations.***

We account for certain acquisitions, including the Xilinx, Inc. (Xilinx) and Pensando Systems Inc. (Pensando) acquisitions, using the acquisition method of accounting under the provisions of ASC 805, Business Combinations, with AMD representing the accounting acquirer under this guidance. We record assets acquired, including identifiable intangible assets, and liabilities assumed, at their respective fair values at the acquisition date. Any excess of the purchase price over the net fair value of such assets and liabilities will be recorded as goodwill. In connection with the Xilinx and Pensando acquisitions, we recorded significant goodwill and other intangible assets on our consolidated balance sheet. Indefinite-lived intangible assets, including goodwill, are tested for impairment at least annually, and all tangible and intangible assets including goodwill will be tested for impairment when certain indicators are present. If, in the future, we determine that tangible or intangible assets, including goodwill, are impaired, we would record an impairment charge at that time. Impairment testing of goodwill requires significant use of judgment and assumptions, particularly as it relates to the determination of fair value. Subsequent to our annual goodwill impairment analysis, we monitor for any events or changes in circumstances, such as significant adverse changes in business climate or operating results, changes in management's business strategy, an inability to successfully introduce new products in the marketplace, an inability to successfully achieve internal forecasts or significant declines in our stock price, which may represent an indicator of impairment. A decrease in the long-term economic outlook and future cash flows of our business could significantly impact asset values and potentially result in the impairment of tangible and intangible assets, including goodwill and may require us to record future impairment charges, which may have a material adverse impact on our financial position and results of operations.

#### **Liquidity and Capital Resources Risks**

***The agreements governing our notes, our guarantees of the Assumed Xilinx Notes, and our Revolving Credit Agreement impose restrictions on us that may adversely affect our ability to operate our business.***

The indenture governing our 3.924% Senior Notes due 2032 and 4.393% Senior Notes due 2052 contains various covenants that limit our ability to, among other things: create liens on certain assets to secure debt, enter into certain sale and leaseback transactions; and consolidate with, merge into or sell, convey or lease all or substantially all of our assets to any other person.

Additionally, in connection with the acquisition of Xilinx, we entered into supplemental indentures for the Xilinx's 2.950% Notes and 2.375% Notes (together, the *Assumed Xilinx Notes*), pursuant to which all obligations of Xilinx under the Assumed Xilinx Notes are unconditionally guaranteed on a senior unsecured basis by us. The indentures governing the Assumed Xilinx Notes also contain various covenants which limit our ability to, among other things, create certain liens on principal property or the capital stock of certain subsidiaries, enter into certain sale and leaseback transactions with respect to principal property, and consolidate or merge with, or convey, transfer or lease all or substantially all our assets, taken as a whole, to another person.



We also have an unsecured revolving credit facility in the aggregate principal amount of \$3.0 billion (Revolving Credit Agreement). Our Revolving Credit Agreement contains various covenants which limit our ability to, among other things, incur liens; and consolidate or merge or sell our assets as an entirety or substantially as an entirety (in each case, except for certain customary exceptions). In addition, our Revolving Credit Agreement requires us to maintain a minimum consolidated interest coverage ratio at the end of each fiscal quarter. The agreement governing our convertible notes and our Revolving Credit Agreement contains provisions whereby a payment default or acceleration under certain agreements with respect to other material indebtedness would result in cross defaults under our convertible indenture or the Revolving Credit Agreement and allow note holders or the lenders under our Revolving Credit Agreement to declare all amounts outstanding under certain of our indentures or the Revolving Credit Agreement to be immediately due and payable. If the lenders under our Revolving Credit Agreement accelerate the repayment of borrowings, we cannot assure you that we will have sufficient assets to repay those borrowings.

***Our indebtedness could adversely affect our financial position and prevent us from implementing our strategy or fulfilling our contractual obligations.***

Our total debt principal amount outstanding as of December 30, 2023 was \$2.5 billion. Our indebtedness may make it difficult for us to satisfy our financial obligations, including making scheduled principal and interest payments; limit our ability to borrow additional funds for working capital, capital expenditures, acquisitions and general corporate and other purposes; limit our ability to use our cash flow or obtain additional financing for future working capital, capital expenditures, acquisitions or other general corporate purposes; require us to use a substantial portion of our cash flow from operations to make debt service payments; place us at a competitive disadvantage compared to our competitors with relatively less debt; and increase our vulnerability to the impact of adverse economic and industry conditions.

We enter into sale and factoring arrangements from time to time with respect to certain accounts receivables, which arrangements are non-recourse to us in the event that an account debtor fails to pay for credit-related reasons, and are not included in our indebtedness. We could become obligated to repurchase such accounts receivables or otherwise incur liability to the counterparties under these arrangements under certain circumstances, such as where a commercial dispute arises between us and an account debtor.

***We may not be able to generate sufficient cash to meet our working capital requirements. If we cannot generate sufficient revenue and operating cash flow, we may face a cash shortfall and be unable to make all of our planned investments in research and development or other strategic investments. Also, our cash and cash equivalents could be adversely affected if the banking institutions in which we hold our cash and cash equivalents fail.***

Our ability to generate sufficient cash to meet our working capital requirements will depend on our financial and operating performance, which may fluctuate significantly from quarter to quarter, and is subject to prevailing economic, financial and business conditions along with other factors, many of which are beyond our control. We cannot assure you that we will be able to generate cash flow in amounts sufficient to enable us to meet our working capital requirements. If we are not able to generate sufficient cash flow from operations, we may be required to sell assets or equity, reduce expenditures, refinance all or a portion of our existing debt or obtain additional financing.

In addition, our ability to fund research and development expenditures depends on generating sufficient revenue and cash flow from operations and the availability of external financing, if necessary. Our research and development expenditures, together with ongoing operating expenses, will be a substantial drain on our cash flow and may decrease our cash balances. If new competitors, technological advances by existing competitors, or other competitive factors require us to invest significantly greater resources than anticipated in our research and development efforts, our operating expenses would increase. If we are required to invest significantly greater resources than anticipated in research and development efforts without an increase in revenue, our operating results could decline.

Our inability to generate sufficient cash from operations may require us to abandon projects or curtail planned investments in research and development or other strategic initiatives. If we curtail planned investments in research and development or abandon projects, our products may fail to remain competitive and our business would be materially adversely affected.



We maintain our cash and cash equivalents in accounts at certain banking institutions, and our deposits at these banking institutions may exceed insured limits. If a banking institution in which we hold funds fails or is subject to significant adverse conditions in the financial or credit markets, we could be subject to a risk of loss of all or a portion of such uninsured funds or be subject to a delay in accessing all or a portion of such uninsured funds. Any such loss or lack of access to these funds could adversely impact our short-term liquidity and ability to meet our operating expense obligations. Further, these events may make equity or debt financing more difficult to obtain, and additional equity or debt financing might not be available on reasonable terms, if at all.

## General Risks

***Our worldwide operations are subject to political, legal and economic risks and natural disasters, which could have a material adverse effect on us.***

We maintain operations around the world, including in the United States, Canada, Europe, Australia, Latin America and Asia. We rely on third-party wafer foundries in the United States, Europe and Asia. Nearly all product assembly and final testing of our products is performed at third-party operated manufacturing facilities, in China, Malaysia and Taiwan. Our shipping services are provided by third-party subcontractors. We also have international sales operations. International sales, as a percent of net revenue, were 65% for the year ended December 30, 2023. We expect that international sales will continue to be a significant portion of total sales in the foreseeable future. The political, legal and economic risks associated with our operations in foreign countries include, without limitation: expropriation; changes in a specific country's or region's political or economic conditions; changes in tax laws, trade protection measures and import or export licensing requirements and restrictions; difficulties in protecting our intellectual property; difficulties in managing staffing and exposure to different employment practices and labor laws; changes in foreign currency exchange rates; restrictions on transfers of funds and other assets of our subsidiaries between jurisdictions; changes in freight rates; changes to macroeconomic conditions, including interest rates, inflation and recession; disruption in air transportation between the U.S. and our overseas facilities; loss or modification of exemptions for taxes and tariffs; and compliance with U.S. laws and regulations related to international operations, including export control and economic sanctions laws and regulations and the Foreign Corrupt Practices Act. Recently, the U.S. and other countries and coalitions have issued sanctions and revisions to export control and other regulations against Russia, Belarus, and the DNR and LNR regions of Ukraine, due to the conflict in Ukraine. Also, geopolitical changes between China and Taiwan could disrupt the operations of our Taiwan-based third-party wafer foundries, manufacturing facilities and subcontractors, and materially adversely affect delivery of products and our business, financial condition and/or operating results. Moreover, the Ukraine-Russia and Israel-Hamas conflicts could escalate and expand, which in turn could have negative impacts on the global economy and financial markets.

In addition, our worldwide operations (or those of our business partners) could be subject to natural disasters and climate change such as earthquakes, tsunamis, flooding, typhoons, droughts, fires, sea-level rise, extreme heat and volcanic eruptions that disrupt our operations, or those of our manufacturers, vendors or customers. For example, our Santa Clara and San Jose operations are located near major earthquake fault lines in California. We also have operations and employees in regions that have experienced extreme weather such as prolonged heat waves, wildfires and freezing. Extreme weather events and natural disasters can also disrupt the ability of our suppliers to deliver expected manufacturing parts and/or services for periods of time. In addition, certain natural disasters, including drought, wildfires, storms, sea-level rise and flooding, could disrupt the availability of water necessary for the operations of our business or the business of our suppliers or customers. Global climate change also may result in chronic changes that result in certain natural disasters occurring more frequently or with greater intensity, which could disrupt our operations, or the operations of our third parties. There may be conflict or uncertainty in the countries in which we operate, including public health issues (for example, an outbreak of a contagious disease such as COVID-19, avian influenza, measles or Ebola), safety issues, natural disasters, fire, disruptions of service from utilities, nuclear power plant accidents or general economic or political factors. We have experienced, and will continue to experience, disruptions to our business as these measures have, and will continue to have, an effect on our business operations and practices.

The United States has been and may continue to be involved in armed conflicts that could have a further impact on our sales and our supply chain. The consequences of armed conflict, political instability or civil or military unrest are unpredictable, and we may not be able to foresee events that could have a material adverse effect on us. Terrorist attacks or other hostile acts may negatively affect our operations, or adversely affect demand for our products, and such attacks or related armed conflicts may impact our physical facilities or those of our suppliers or customers. Furthermore, these attacks or hostile acts may make travel and the transportation of our products more difficult and more expensive, which could materially adversely affect us. Any of these events could cause consumer spending to decrease or result in increased volatility in the U.S. economy and worldwide financial markets.

Any of the above risks, should they occur, could result in increased costs, shipment delays, general business interruptions, the inability to obtain, or delays in obtaining export licenses for certain technology, penalties or a loss of export privileges, as well as stringent licensing restrictions that may make our products less attractive to international customers, tariffs and other barriers and restrictions, longer payment cycles, increased taxes, restrictions on the repatriation of funds and the burdens of complying with a variety of foreign laws, any of which could ultimately have a material adverse effect on our business.

***We may incur future impairments of our technology license purchases.***

We license certain third-party technologies and tools for the design and production of our products. We report the value of those licenses as other non-current assets on the balance sheet and we periodically evaluate the carrying value of those licenses based on their future economic benefit to us. Factors such as the life of the assets, changes in competing technologies, and changes to the business strategy may represent an indicator of impairment. The occurrence of any of these events may require us to record future technology license impairment charges.

***Our inability to continue to attract and retain qualified personnel may hinder our business.***

Much of our future success depends upon the continued service of numerous qualified engineering, marketing, sales and executive employees. Competition for highly skilled executives and employees in the technology industry, especially in the areas of AI and machine learning, is intense and our competitors have targeted individuals in our organization that have desired skills and experience. If we are not able to continue to attract, train and retain our leadership team and our qualified employees necessary for our business, the progress of our product development programs could be hindered, and we could be materially adversely affected. To help attract, retain and motivate our executives and qualified employees, we use share-based incentive awards such as employee stock options and non-vested share units (restricted stock units). If the value of such stock awards does not appreciate as measured by the performance of the price of our common stock, or if our share-based compensation otherwise ceases to be viewed as a valuable benefit, our ability to attract, retain and motivate our executives and employees could be weakened, which could harm our results of operations. Also, if the value of our stock awards increases substantially, this could potentially create great personal wealth for our executives and employees and affect our ability to retain our personnel. In addition, any future restructuring plans may adversely impact our ability to attract and retain key employees.

***Our stock price is subject to volatility.***

Our stock price has experienced price and volume fluctuations and could be subject to wide fluctuations in the future. The trading price of our stock may fluctuate widely due to various factors including actual or anticipated fluctuations in our financial conditions and operating results, changes in financial estimates by us or financial estimates and ratings by securities analysts, changes in our capital structure, including issuance of additional debt or equity to the public, interest rate changes, inflation, news regarding our products or products of our competitors, and broad market and industry fluctuations. Stock price fluctuations could impact the value of our equity compensation, which could affect our ability to recruit and retain employees. In addition, volatility in our stock price could adversely affect our business and financing opportunities.

We have an approved stock repurchase program that authorizes repurchases of up to \$12 billion of our common stock (Repurchase Program). As of December 30, 2023, \$5.6 billion remained available for future stock repurchases under the Repurchase Program. The Repurchase Program does not obligate us to acquire any common stock, has no termination date and may be suspended or discontinued at any time. Our stock repurchases could affect the trading price of our stock, the volatility of our stock price, reduce our cash reserves, and may be suspended or discontinued at any time, which may result in a decrease in our stock price.

## ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

## ITEM 1C. CYBERSECURITY

### Cybersecurity Risk Management and Strategy

We have developed and implemented a cybersecurity risk management program intended to protect the confidentiality, integrity, and availability of our critical systems and information.

We design and assess our program based on the National Institute of Standards and Technology Cybersecurity Framework (NIST CSF and AI Risk Management Framework). This does not mean that we meet any particular technical standards, specifications, or requirements, but only that we use the NIST CSF as a guide to help us identify, assess, and manage cybersecurity risks relevant to our business.

Information about cybersecurity risks and our risk management processes is collected, analyzed and considered as part of our overall enterprise risk management program.

Key components of our cybersecurity risk management program include:

- risk assessments designed to help identify cybersecurity risks to our critical systems, information, services, and our broader enterprise IT environment;
- a security team principally responsible for managing (1) our cybersecurity risk assessment processes, (2) our security controls, and (3) our response to cybersecurity incidents;
- the use of external service providers, where appropriate, to assess, test or otherwise assist with aspects of our security processes;
- cybersecurity awareness training of our employees, incident response personnel and senior management;
- a cybersecurity incident response plan that includes procedures for responding to cybersecurity incidents; and
- a third-party cyber risk management process for vendors including, among other things, a security assessment and contracting program for vendors based on their risk profile.

At this time, we have not identified risks from known cybersecurity threats, including as a result of any prior cybersecurity incidents, that have materially affected us, including our operations, business strategy, results of operations, or financial condition. We face certain ongoing risks from cybersecurity threats that, if realized, are reasonably likely to materially affect us, including our operations, business strategy, results of operations, or financial condition. See *“Risk Factors - IT outages, data loss, data breaches and cyberattacks could disrupt operations and compromise our intellectual property or other sensitive information, be costly to remediate or cause significant damage to our business, reputation, financial condition and results of operations.”*

### Cybersecurity Governance

Our Board considers cybersecurity risk as part of its risk oversight function and has delegated to the Audit and Finance Committee (Committee) oversight of cybersecurity and other information technology risks. The Committee oversees management’s implementation of our cybersecurity risk management program.

The Committee receives quarterly reports from management on our cybersecurity risks. In addition, management updates the Committee, as necessary, regarding any significant cybersecurity incidents.

The Committee reports to the full Board regarding its activities, including those related to cybersecurity. The full Board also receives a briefing from management on our cyber risk management program at least annually. Board members receive presentations on cybersecurity matters from our Chief Information Security Officer (CISO), information security team or external experts as part of the Board’s continuing education on topics that impact public companies.

Our management team, led by our CISO and Sr. Director of Information Security, are responsible for assessing and managing our material risks from cybersecurity threats. The team has primary responsibility for our overall cybersecurity risk management program and supervises both our internal cybersecurity personnel and any retained external cybersecurity consultants. Our Sr. Director of Information Security has served in various roles in information technology and information security for over 20 years and holds multiple industry-recognized certifications. Our CISO, who is also our Chief Information Officer, has over 20 years of experience managing global IT operations, including strategy, applications, infrastructure, information security, support and execution.

Our management team, led by our CISO and Sr. Director of Information Security, is informed about and monitors the prevention, detection, mitigation, and remediation of cybersecurity risks and incidents through various means, which may include, among other things, briefings with internal security personnel, threat intelligence and other information obtained from governmental, public or private sources, including external consultants engaged by us, and alerts and reports produced by security tools deployed in our IT environment.

## **ITEM 2. PROPERTIES**

As of December 30, 2023, we have approximately 6 million square feet of space for research and development, engineering, administrative and warehouse use throughout the world. These facilities include approximately 5 million square feet of leased space and approximately 1 million square feet of owned space. Our headquarters are located in Santa Clara, California, and we have significant operations in Austin, Texas; San Jose, California; Shanghai, China; Markham, Ontario, Canada; Longmont, Colorado; Dublin, Ireland; Singapore; and Bangalore and Hyderabad, India. We also have a number of regional sales offices located in commercial centers near customers, principally in the United States, Europe, Asia and Latin America.

We currently do not anticipate difficulty in either retaining occupancy of any of our facilities through lease renewals prior to expiration or through month-to-month occupancy or replacing them with equivalent facilities. We believe that our existing facilities are suitable and adequate for our present purposes and that the productive capacity of such facilities is substantially being utilized or we have plans to utilize such capacity.

## **ITEM 3. LEGAL PROCEEDINGS**

For a discussion of our legal proceedings, refer to Note 17 – Contingencies of the Notes to Consolidated Financial Statements (Part II, Item 8 of this Form 10-K).

## **ITEM 4. MINE SAFETY DISCLOSURES**

Not Applicable.

**PART II****ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES**

Our common stock is listed on The NASDAQ Global Select Market (NASDAQ) under the symbol "AMD". On January 25, 2024, there were 4,909 registered holders of our common stock, and the closing price of our common stock was \$180.33 per share as reported on NASDAQ.

**Issuer Purchases of Equity Securities**

We have an approved stock repurchase program authorizing repurchases of up to \$12 billion of our common stock (Repurchase Program). We expect to fund repurchases through cash generated from operations. Our Repurchase Program does not obligate us to acquire any common stock, has no termination date and may be suspended or discontinued at any time. The following table provides information relating to our repurchase of common stock during the fourth quarter of fiscal year 2023:

<b>Date of Repurchase</b>	<b>Total Number of Shares Repurchased</b>	<b>Average Price Paid per Share</b>	<b>Total Number of Shares Repurchased as Part of Publicly Announced Plans or Programs</b>	<b>Approximate Dollar Value of Shares That May Yet be Purchased Under the Publicly Announced Plans or Programs</b>
				<b>(In millions)</b>
Oct 1, 2023 - Oct 28, 2023	—	\$ —	—	\$ 5,788
Oct 29, 2023 - Nov 25, 2023	781,106	\$ 119.59	781,106	\$ 5,694
Nov 26, 2023 - Dec 30, 2023	1,164,316	\$ 119.99	1,164,316	\$ 5,555
Total	<u>1,945,422</u>		<u>1,945,422</u>	

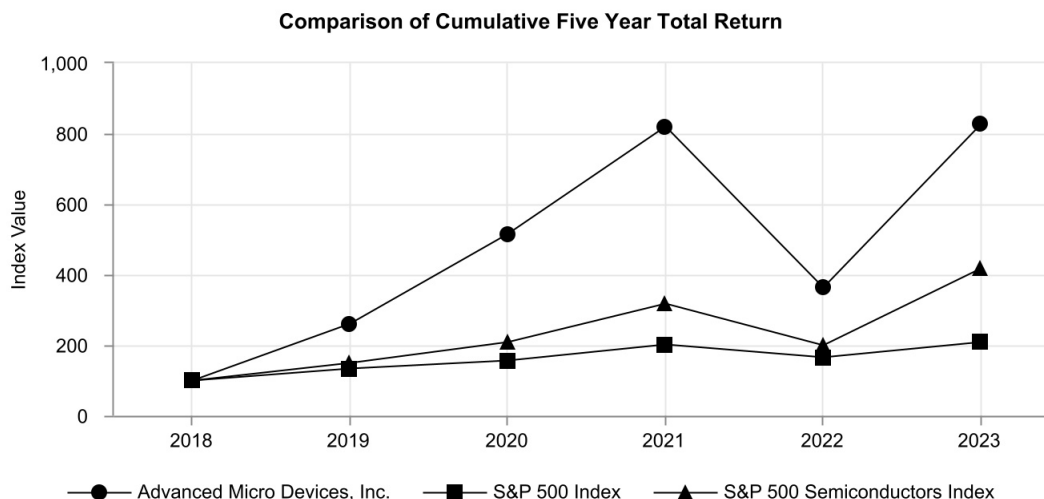
**Equity Award Share Withholding**

Shares of common stock withheld as payment of withholding taxes in connection with the vesting or exercise of equity awards are also treated as common stock repurchases. Those withheld shares of common stock are not considered common stock repurchases under an authorized common stock repurchase plan. During fiscal year 2023, we withheld 4 million shares at an average price of \$110.51 per share as payment of withholding taxes in connection with the vesting and exercise of equity awards.

For information about our equity compensation plans, see Part III, Item 11, below.

**Performance Graph**  
**Comparison of Five-Year Cumulative Total Returns**  
**Advanced Micro Devices, S&P 500 Index and S&P 500 Semiconductors Index**

The following graph shows a five-year comparison of cumulative total return on our common stock, the S&P 500 Index and the S&P 500 Semiconductors Index from December 29, 2018 through December 30, 2023, assuming reinvestment of dividends. The past performance of our common stock is no indication of future performance.



Company / Index	Base Period			Years Ended		
	12/29/2018	12/28/2019	12/26/2020	12/25/2021	12/31/2022	12/30/2023
<b>Advanced Micro Devices, Inc.</b>	\$100	\$ 259	\$ 515	\$ 820	\$ 363	\$ 827
<b>S&amp;P 500 Index</b>	\$100	\$ 133	\$ 155	\$ 200	\$ 165	\$ 209
<b>S&amp;P 500 Semiconductors Index</b>	\$100	\$ 148	\$ 208	\$ 317	\$ 198	\$ 417

**Unregistered Sales of Equity Securities**

None.

**ITEM 6. [RESERVED]**

## ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion should be read in conjunction with the consolidated financial statements as of December 30, 2023 and December 31, 2022 and for each of the three years in the period ended December 30, 2023 and related notes, which are included in this Annual Report on Form 10-K as well as with the other sections of this Annual Report on Form 10-K, "Part II, Item 8: Financial Statements and Supplementary Data."

### Introduction

In this section, we will describe the general financial condition and the results of operations of Advanced Micro Devices, Inc. and its wholly-owned subsidiaries (collectively, "us," "our" or "AMD"), including a discussion of our results of operations for 2023 compared to 2022, an analysis of changes in our financial condition and a discussion of our off-balance sheet arrangements. Discussions of 2021 items and year-to-year comparisons between 2022 and 2021 that are not included in this Form 10-K can be found in "Management's Discussion and Analysis of Financial Condition and Results of Operations" in Part II, Item 7 of our Annual Report on Form 10-K for the fiscal year ended December 31, 2022.

### Overview

During 2023 we successfully launched multiple leadership products across our business and made important progress on our artificial intelligence (AI) strategy. In Data Center, we launched several 4th Gen AMD EPYC™ processors, including our AMD EPYC 97x4 processors, formerly codenamed "Bergamo," built with our "Zen 4c" architecture core and designed to deliver leadership cloud-native computing, and our AMD EPYC 8004 Series processors, formerly codenamed "Siena", that bring the "Zen 4c" core into a purpose-built CPU. In addition, we announced the extension of our 3rd Gen AMD EPYC processor family with six new offerings to meet the needs of general IT and mainstream computing for businesses seeking to leverage the economics of established platforms. For our AI Data Center solutions, we announced the availability of the AMD Instinct™ MI300X accelerators that are designed to deliver leadership performance for generative AI workloads and high performance computing (HPC) applications. In addition, we unveiled the AMD Instinct MI300A APU, which integrate the CPU and GPU cores on a single package delivering an efficient platform while also providing the compute performance to accelerate training on the latest AI models. We enhanced the performance and features of our AMD RoCm™ software by releasing our latest AMD ROCm 6 open software platform for AI and HPC workloads.

We expanded our Embedded processor portfolio with powerful, scalable offerings for a variety of embedded applications such as the AMD Ryzen™ Embedded 7000 Series processor family. We launched the AMD Versal™ Premium VP1902 adaptive SoC designed to help chipmakers streamline the verification of application-specific integrated circuits (ASICs) and SoC designs, and we introduced the Spartan™ Ultrascale+™ FPGA ideal for cost-sensitive applications requiring low power and high I/O. We launched the AMD Alveo™ MA35D media accelerator to power live interactive streaming services at scale, as well as the AMD Alveo UL3524 accelerator card. We expanded our Zynq™ UltraScale™ RFSoc digital front-end portfolio with two additional devices to enable the expansion and deployment of 4G/5G radios where lower cost, power and spectrum-efficient radios are required to address increased wireless connectivity. For our adaptive System-on-Modules (SOMs), we announced the addition of AMD Kria™ K24 SOM and KD240 Drives Starter Kit which offer power-efficient compute in a small factor and target cost-sensitive industrial and commercial edge applications.

We continued to expand our Client product portfolio by launching our Ryzen 7000 Series Mobile processors bringing the power of "Zen 4" and AMD RDNA 3 integrated graphics architecture to notebook users. We expanded our commercial portfolio with AMD Ryzen PRO 7000 Series Mobile processors to bring advanced and power efficient x86 processors to business notebooks and mobile workstations. We announced our Ryzen 7045HX3D gaming mobile processor with AMD 3D V-cache technology with leadership mobile gaming performance. We also introduced AMD Ryzen X3D desktop processors, the Ryzen 9 7900X3D and Ryzen 9 7950X3D processors with 3D V-Cache technology. For handheld PC gaming consoles, we introduced the AMD Ryzen Z1 and Z1 Extreme processors featuring RDNA 3 architecture based graphics, to bring portability and battery life to handheld PC gaming consoles.



In Gaming, we introduced the AMD Radeon RX 7900M graphics for laptops, delivering desktop-class performance for gaming and content creation. We also introduced the new AMD Radeon™ PRO W7000 Series graphics, our first professional graphic cards built on advanced AMD chiplet design to deliver leadership performance and unique features: the AMD Radeon PRO W7600 and AMD Radeon PRO W7500. We designed these workstation graphics cards for mainstream professional workflows. We also unveiled the AMD Radeon RX 7800 XT and Radeon RX 7700 XT graphics cards optimized to deliver high-performance and high-refresh 1440p gaming experiences along with AMD FidelityFX™ Super Resolution 3 designed to offer performance boosts in supported games.

We expanded our AI engagements with a broad set of data center customers during the year. In our Data Center GPU business, demand for our Data Center GPUs products was very strong as we had large hyperscaler customers committed to deploy our next generation AMD Instinct MI300 accelerators. Our AI strategy is focused on three areas: first, to deliver a broad portfolio and multigenerational roadmap of leadership CPUs, GPUs and adaptive computing solutions for AI inference and training; second, to extend the open software platform we have established to enable our AI hardware to be deployed broadly and with ease; and third, expand the deep and collaborative engagements we have established across the ecosystems to accelerate deployments of AMD-based AI solutions at scale. To help execute our AI strategy and accelerate our AI business, we brought together multiple AI teams across AMD to execute our end-to-end AI hardware strategy and drive development of a comprehensive software ecosystem that will span our full product portfolio. We strengthened our AI software capabilities with strategic acquisitions during the year. In August 2023, we acquired Mipsology SAS, an AI software company to help develop the full AMD AI software stack and expand the open ecosystem of software tools, libraries and models. We further expanded our open AI software capabilities with the acquisition of Nod, Inc., an open AI software company, in October 2023. Nod, Inc.'s software technology helps accelerate the deployment of AI solutions optimized for AMD Instinct data center accelerators, Ryzen AI processors, EPYC processors, Versal SoCs and Radeon GPUs.

Against the backdrop of a mixed demand environment, net revenue for 2023 was \$22.7 billion, a decrease of 4% compared to 2022 net revenue of \$23.6 billion. The decrease in net revenue was primarily due to a 25% decrease in Client segment revenue primarily due to lower processor sales and a 9% decrease in Gaming segment revenue primarily due to lower semi-custom product sales. This decrease was partially offset by a 17% increase in Embedded segment revenue primarily due to the inclusion of embedded product revenue from Xilinx, Inc. (Xilinx) for the full twelve months period in 2023, as compared to a partial period from February 14, 2022 (the Xilinx Acquisition Date) in the prior year period, and a 7% increase in Data Center segment revenue primarily driven by higher sales of AMD Instinct GPUs and 4th Gen AMD EPYC CPUs. Gross margin, as a percentage of net revenue for 2023, was 46%, compared to 45% in 2022. The increase in gross margin was primarily due to higher Embedded segment revenue and lower amortization of acquisition-related intangible assets, partially offset by lower Client segment revenue and product mix. Operating income for 2023 was \$401 million compared to operating income of \$1.3 billion for 2022. The decrease in operating income was primarily due to lower Client segment performance and increased R&D investments, partially offset by lower amortization of acquisition-related intangible assets. Net income for 2023 was \$854 million compared to \$1.3 billion in the prior year. The decrease in net income was primarily driven by lower operating income.

Cash, cash equivalents and short-term investments as of December 30, 2023 were \$5.8 billion, compared to \$5.9 billion at the end of 2022. Our aggregate principal amount of total debt as of December 30, 2023 and December 31, 2022 was \$2.5 billion.

During the twelve months ended December 30, 2023, we returned a total of \$985 million to shareholders through the repurchase of 9.7 million shares of common stock under our stock repurchase program. As of December 30, 2023, \$5.6 billion remained available for future stock repurchases under this program. The repurchase program does not obligate us to acquire any common stock, has no termination date and may be suspended or discontinued at any time.

We intend the discussion of our financial condition and results of operations that follows to provide information that will assist in understanding our financial statements, the changes in certain key items in those financial statements from period to period, the primary factors that resulted in those changes, and how certain accounting principles, policies and estimates affect our financial statements.

## Critical Accounting Estimates

Our discussion and analysis of our financial condition and results of operations are based upon our consolidated financial statements, which have been prepared in accordance with U.S. generally accepted accounting principles (U.S. GAAP). The preparation of our financial statements requires us to make estimates and judgments that affect the reported amounts in our consolidated financial statements. We evaluate our estimates on an on-going basis, including those related to our revenue, inventories, goodwill, long-lived and intangible assets, and income taxes. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities. Although actual results have historically been reasonably consistent with management's expectations, the actual results may differ from these estimates or our estimates may be affected by different assumptions or conditions.

Management believes the following critical accounting estimates are the most significant to the presentation of our financial statements and require the most difficult, subjective and complex judgments.

*Revenue Allowances.* Revenue contracts with our customers include variable amounts which we evaluate under ASC 606-10-32-8 through 14 in order to determine the net amount of consideration to which we are entitled and which we recognize as revenue. We determine the net amount of consideration to which we are entitled by estimating the most likely amount of consideration we expect to receive from the customer after adjustments to the contract price for rights of return and rebates to our original equipment manufacturers (OEM) customers and rights of return, rebates and price protection on unsold merchandise to our distributor customers.

We base our determination of necessary adjustments to the contract price by reference to actual historical activity and experience, including actual historical returns, rebates and credits issued to OEM and distributor customers adjusted, as applicable, to include adjustments, if any, for known events or current economic conditions, or both.

Our estimates of necessary adjustments for distributor price incentives and price protection on unsold products held by distributors are based on actual historical incentives provided to distributor customers and known future price movements based on our internal and external market data analysis.

Our estimates of necessary adjustments for OEM price incentives utilize, in addition to known pricing agreements, actual historical rebate attainment rates and estimates of future OEM rebate program attainment based on internal and external market data analysis.

We offer incentive programs through cooperative advertising and marketing promotions. Where funds provided for such programs can be estimated, we recognize a reduction to revenue at the time the related revenue is recognized; otherwise, we recognize such reduction to revenue at the later of when: i) the related revenue transaction occurs; or ii) the program is offered. For transactions where we reimburse a customer for a portion of the customer's cost to perform specific product advertising or marketing and promotional activities, such amounts are recognized as a reduction to revenue unless they qualify for expense recognition.

We also provide limited product return rights to certain OEMs and to most distribution customers. These return rights are generally limited to a contractual percentage of the customer's prior quarter shipments, although, from time to time we may approve additional product returns beyond the contractual arrangements based on the applicable facts and circumstances. In order to estimate adjustments to revenue to account for these returns, including product restocking rights provided to distributor and OEM customers, we utilize relevant, trended actual historical product return rate information gathered, adjusted for actual known information or events, as applicable.

Overall, our estimates of adjustments to contract price due to variable consideration under our contracts with OEM and distributor customers, based on our assumptions and include adjustments, if any, for known events, have been materially consistent with actual results; however, these estimates are subject to management's judgment and actual provisions could be different from our estimates and current provisions, resulting in future adjustments to our revenue and operating results.

*Inventory Valuation.* We value inventory at standard cost, adjusted to approximate the lower of actual cost or estimated net realizable value using assumptions about future demand and market conditions. Material assumptions we use to estimate necessary inventory carrying value adjustments can be unique to each product and are based on specific facts and circumstances. In determining excess or obsolescence reserves for products, we consider assumptions such as changes in business and economic conditions, other-than-temporary decreases in demand for our products, and changes in technology or customer requirements. In determining the lower of cost or net realizable value reserves, we consider assumptions such as recent historical sales activity and selling prices, as well as estimates of future selling prices. If in any period we anticipate a change in assumptions such as future demand or market conditions to be less favorable than our previous estimates, additional inventory write-downs may be required and would be reflected in cost of sales, resulting in a negative impact to our gross margin in that period. If in any period we are able to sell inventories that had been written down to a level below the ultimate realized selling price in a previous period, related revenue would be recorded with a lower or no offsetting charge to cost of sales resulting in a net benefit to our gross margin in that period. Overall, our estimates of inventory carrying value adjustments have been materially consistent with actual results.

*Goodwill.* Goodwill is the excess of the aggregate of the consideration transferred over the identifiable assets acquired and liabilities assumed in connection with business combinations. Our reporting units are at the operating segment level. Our goodwill is contained within four reporting units: Data Center, Client, Gaming and Embedded.

We perform our goodwill impairment analysis as of the first day of the fourth quarter of each year and, if certain events or circumstances indicate that an impairment loss may have been incurred, on a more frequent basis. The analysis may include both qualitative and quantitative factors to assess the likelihood of an impairment, which occurs when the carrying value of a reporting unit exceeds its fair value. Significant judgment is required in estimating the fair value of our reporting units to determine if the fair values of those units exceed their carrying values and an impairment to goodwill is required when a quantitative goodwill impairment test is performed. We typically obtain the assistance of third-party valuation specialists to help in determining the fair value of our reporting units. Changes in operating plans or adverse changes in the business or in the macroeconomic environment in the future could reduce the underlying cash flows used to estimate fair values and could result in a decline in fair value that would trigger future impairment charges of our reporting units' goodwill. Based on our annual qualitative impairment test, we concluded it is not more likely than not that the fair value of each reporting unit exceeded its carrying amount.

*Long-Lived and Intangible Assets.* Long-lived and intangible assets to be held and used are reviewed for impairment if indicators of potential impairment exist and at least annually for indefinite-lived intangible assets. Impairment indicators are reviewed on a quarterly basis. Assets are grouped and evaluated for impairment at the lowest level of identifiable cash flows. When indicators of impairment exist and assets are held for use, we estimate future undiscounted cash flows attributable to the related asset groups. In the event such cash flows are not expected to be sufficient to recover the recorded value of the assets, the assets are written down to their estimated fair values based on the expected discounted future cash flows attributable to the asset group or based on appraisals.

*Income Taxes.* In determining taxable income for financial statement reporting purposes, we must make certain estimates and judgments. These estimates and judgments are applied in the calculation of certain tax liabilities and in the determination of the recoverability of deferred tax assets which arise from temporary differences between the recognition of assets and liabilities for tax and financial statement reporting purposes.

We regularly assess the likelihood that we will be able to recover our deferred tax assets. Unless recovery is considered more-likely-than-not (a probability level of more than 50%), we will record a charge to income tax expense in the form of a valuation allowance for the deferred tax assets that we estimate will not ultimately be recoverable or maintain the valuation allowance recorded in prior periods. When considering all available evidence, if we determine it is more-likely-than-not we will realize our deferred tax assets, we will reverse some or all of the existing valuation allowance, which would result in a credit to income tax expense and the establishment of an asset in the period of reversal.

In determining the need to establish or maintain a valuation allowance, we consider the four sources of jurisdictional taxable income: (i) carryback of net operating losses to prior years; (ii) future reversals of existing taxable temporary differences; (iii) viable and prudent tax planning strategies; and (iv) future taxable income exclusive of reversing temporary differences and carryforwards.

Through the end of 2023, we continue to maintain a valuation allowance of approximately \$2.1 billion for certain federal, state, and foreign tax attributes. The federal valuation allowance maintained is due to limitations, under Internal Revenue Code Section 382 or 383, separate return loss year rules, or dual consolidated loss rules. Certain state and foreign valuation allowances are maintained due to a lack of sufficient sources of future taxable income.

In addition, the calculation of our tax liabilities involves addressing uncertainties in the application of complex, multi-jurisdictional tax rules and the potential for future adjustment of our uncertain tax positions by the Internal Revenue Service or other taxing authorities.

### Results of Operations

Additional information on our reportable segments is contained in Note 4 – Segment Reporting of the Notes to Financial Statements (Part II, Item 8 of this Form 10-K).

Our operating results tend to vary seasonally. Historically, our net revenue has been generally higher in the second half of the year than in the first half of the year, although market conditions and product transitions could impact these trends.

The following table provides a summary of net revenue and operating income (loss) by segment for 2023 and 2022:

	Year Ended	
	December 30, 2023	December 31, 2022
	(In millions)	
<b>Net revenue:</b>		
Data Center	\$ 6,496	\$ 6,043
Client	4,651	6,201
Gaming	6,212	6,805
Embedded	5,321	4,552
<b>Total net revenue</b>	<b>\$ 22,680</b>	<b>\$ 23,601</b>
<b>Operating income (loss):</b>		
Data Center	\$ 1,267	\$ 1,848
Client	(46)	1,190
Gaming	971	953
Embedded	2,628	2,252
All Other	(4,419)	(4,979)
<b>Total operating income</b>	<b>\$ 401</b>	<b>\$ 1,264</b>

#### Data Center

Data Center net revenue of \$6.5 billion in 2023 increased by 7%, compared to net revenue of \$6.0 billion in 2022. The increase was primarily driven by higher sales of AMD Instinct GPUs and 4th Gen AMD EPYC CPUs.

Data Center operating income was \$1.3 billion in 2023, compared to operating income of \$1.8 billion in 2022. The decrease in operating income was primarily due to product mix and higher research and development (R&D) investment.

#### Client

Client net revenue of \$4.7 billion in 2023 decreased by 25%, compared to net revenue of \$6.2 billion in 2022, primarily due to lower sales of Ryzen mobile and desktop processors, resulting from a 16% decrease in average selling price and a 12% decrease in unit shipments. Lower Ryzen processor sales were due to weak PC market conditions and inventory correction across the PC supply chain that impacted the first half of 2023.

Client operating loss was \$46 million in 2023, compared to operating income of \$1.2 billion in 2022. The decrease in operating income was primarily due to lower revenue.

**Gaming**

Gaming net revenue of \$6.2 billion in 2023 decreased by 9%, compared to net revenue of \$6.8 billion in 2022. The decrease in net revenue was primarily due to lower semi-custom product revenue.

Gaming operating income was \$971 million in 2023, compared to operating income of \$953 million in 2022. The increase in operating income was primarily driven by product mix, partially offset by higher R&D investment.

**Embedded**

Embedded net revenue of \$5.3 billion in 2023 increased by 17%, compared to net revenue of \$4.6 billion in 2022. The increase in net revenue was primarily driven by the inclusion of embedded product revenue from Xilinx, Inc. (Xilinx) for the full twelve months period in 2023, as compared to a partial period from February 14, 2022 (the Xilinx Acquisition Date) in the prior year period.

Embedded operating income was \$2.6 billion in 2023, compared to operating income of \$2.3 billion in 2022. The increase in operating income was primarily driven by the inclusion of Xilinx for the full twelve months period as compared to a partial period from the Xilinx Acquisition Date in the prior year period.

**All Other**

All Other operating loss of \$4.4 billion in 2023 primarily consisted of \$2.8 billion of amortization of acquisition-related intangibles, \$1.4 billion of stock-based compensation expense, and \$258 million of acquisition-related and other costs. All Other operating loss of \$5.0 billion in 2022 primarily consisted of \$3.5 billion of amortization of acquisition-related intangibles, \$1.1 billion of stock-based compensation expense and \$452 million of acquisition-related and other costs.

**Comparison of Gross Margin, Expenses, Licensing Gain, Interest Expense, Other Income (expense) and Income Taxes**

The following is a summary of certain consolidated statement of operations data for 2023 and 2022:

	December 30, 2023	December 31, 2022
	(In millions, except for percentages)	
Net revenue	\$ 22,680	\$ 23,601
Cost of sales	11,278	11,550
Amortization of acquisition-related intangibles	942	1,448
Gross profit	10,460	10,603
Gross margin	46 %	45 %
Research and development	5,872	5,005
Marketing, general and administrative	2,352	2,336
Amortization of acquisition-related intangibles	1,869	2,100
Licensing gain	(34)	(102)
Interest expense	(106)	(88)
Other income (expense), net	197	8
Income tax (benefit)	(346)	(122)

**Gross Margin**

Gross margin as a percentage of net revenue was 46% in 2023 compared to 45% in 2022. The increase in gross margin was primarily driven by higher Embedded segment revenue and lower amortization of acquisition-related intangible assets, partially offset by lower Client segment revenue and product mix.

**Expenses**

**Research and Development Expenses**

Research and development expenses of \$5.9 billion in 2023 increased by \$867 million, or 17%, compared to \$5.0 billion in 2022. The increase was primarily due to higher employee-related costs due to an increase in headcount to support increased investment in AI.

### **Marketing, General and Administrative Expenses**

Marketing, general and administrative expenses of \$2.4 billion in 2023 increased by \$16 million, or 1%, compared to \$2.3 billion in 2022. The increase was primarily due to an increase in employee-related costs.

### **Amortization of Acquisition-Related Intangibles**

Amortization of acquisition-related intangibles of \$2.8 billion for 2023 decreased by \$737 million, or 21%, compared to \$3.5 billion in 2022. The decrease was primarily due to certain acquisition-related intangibles being fully amortized in the first half of the current fiscal year.

### **Licensing Gain**

We recognized \$34 million of licensing gain from royalty income and \$102 million of licensing gain from milestone achievement and royalty income associated with the licensed IP to the THATIC JV, our two joint ventures with Higon Information Technology Co., Ltd., a third-party Chinese entity, in 2023 and 2022, respectively.

### **Interest Expense**

Interest expense of \$106 million in 2023 increased by \$18 million compared to \$88 million in 2022, primarily due to interest expense from our 3.924% Senior Notes Due 2032 (3.924% Notes) and our 4.393% Senior Notes Due 2052 (4.393% Notes) that were issued in June 2022.

### **Other Income (expense), net**

Other income (expense), net is primarily comprised of interest income from short-term investments, changes in valuation of equity investments and foreign currency transaction gains and losses.

Other income (expense), net was \$197 million in 2023 compared to \$8 million of Other income, net in 2022. The change was primarily due to an increase in interest income driven by rising interest rates.

### **Income Tax Benefit**

We recorded an income tax benefit of \$346 million and \$122 million in 2023 and 2022, respectively, representing effective tax rates of (68%) and (10%), respectively. The increase in income tax benefit in 2023 was primarily due to the lower pre-tax income coupled with a \$185 million foreign-derived intangible income tax benefit and \$169 million of research and development tax credits.

### *Global Minimum Tax*

The OECD is continuing discussions surrounding fundamental changes in allocation of profits among tax jurisdictions in which companies do business, as well as the implementation of a global minimum tax (namely the "Pillar One" and "Pillar Two" proposals). The Council of the European Union has adopted the global corporate 15% minimum tax as provided for in Pillar Two and has directed EU member states to implement legislation enacting Pillar Two. Many countries, including non-EU member states, have implemented laws based on Pillar Two proposals, with effective dates starting in 2024. Although many countries have already introduced Pillar Two legislation applicable to the Company effective in 2024, certain jurisdictions in which we operate have not adopted corresponding legislation to date. The impact associated with Pillar Two will be accounted for as period costs. We continue to evaluate the impact of proposed and enacted legislative changes to our effective tax rate and cash flows as new guidance becomes available.

### **International Sales**

International sales as a percentage of net revenue were 65% in 2023 and 66% in 2022. We expect that international sales will continue to be a significant portion of total sales in the foreseeable future. Substantially all of our sales transactions are denominated in U.S. dollars.

**FINANCIAL CONDITION*****Liquidity and Capital Resources***

As of December 30, 2023, our cash, cash equivalents and short-term investments were \$5.8 billion compared to \$5.9 billion as of December 31, 2022. The percentage of cash and cash equivalents held domestically was 77% as of December 30, 2023, and 73% as of December 31, 2022.

Our operating, investing and financing cash flow activities for 2023 and 2022 were as follows:

	December 30, 2023	December 31, 2022
	(In millions)	
Net cash provided by (used in):		
Operating activities	\$ 1,667	\$ 3,565
Investing activities	(1,423)	1,999
Financing activities	(1,146)	(3,264)
Net increase (decrease) in cash and cash equivalents	<u>\$ (902)</u>	<u>\$ 2,300</u>

We have \$3.0 billion available under an unsecured revolving credit agreement (Revolving Credit Agreement) that expires on April 29, 2027. No funds were drawn from this credit facility during the year ended December 30, 2023.

We also have a commercial paper program to issue unsecured commercial paper notes up to a maximum principal amount outstanding, at any time, of \$3.0 billion, with a maturity of up to 397 days from the date of issue. We did not issue any commercial paper during the year ended December 30, 2023.

Our aggregate principal debt obligations were \$2.5 billion as of December 30, 2023. Our 2.95% Notes with a principal amount of \$750 million are due in June 2024.

As of December 30, 2023, we had unconditional purchase commitments of approximately \$4.6 billion, of which \$3.9 billion are in fiscal year 2024. On an ongoing basis, we work with our suppliers on the timing of payments and deliveries of purchase commitments, taking into account business conditions. Our contractual obligations and purchase commitments relate primarily to our obligations to purchase wafers and substrates from third parties and future payments related to certain software and technology licenses and IP licenses. See Note 16 – Commitments and Guarantees.

We believe our cash, cash equivalents, short-term investments and cash flows from operations along with our Revolving Credit Facility and commercial paper program will be sufficient to fund operations, including capital expenditures and purchase commitments, over the next 12 months and beyond. We believe we will be able to access the capital markets should we require additional funds. However, we cannot assure that such funds will be available on favorable terms, or at all.

***Operating Activities***

Our working capital cash inflows and outflows from operations consist primarily of cash collections from our customers, payments for inventory purchases and payments for employee-related expenditures.

Net cash provided by operating activities was \$1.7 billion in 2023, primarily due to our net income of \$854 million in 2023, adjusted for non-cash adjustments of \$3.9 billion and net cash outflows of \$3.0 billion from changes in our operating assets and liabilities. The primary drivers of the changes in operating assets and liabilities included a \$1.3 billion increase in accounts receivable driven primarily by higher revenue in the last month of 2023 compared to the last month of 2022, and a \$580 million increase in inventories driven primarily by build of advanced process nodes to support the ramp of new products.



Net cash provided by operating activities was \$3.6 billion in 2022, primarily due to our net income of \$1.3 billion in 2022, adjusted for non-cash adjustments of \$4.1 billion and net cash outflows of \$1.8 billion from changes in our operating assets and liabilities. The primary drivers of the changes in operating assets and liabilities included a \$1.4 billion increase in inventories driven primarily by build of advanced process nodes to support the ramp of new products, a \$1.1 billion increase in accounts receivable driven primarily by higher revenue in the fourth quarter of 2022 compared to the fourth quarter of 2021, and a \$1.2 billion increase in prepaid expenses and other assets due primarily to prepayments under long-term supply agreements in 2022, offset by an \$931 million increase in accounts payable primarily due to timing of payments to our suppliers, and a \$546 million increase in accrued liabilities and other driven mainly by higher customer-related accruals.

#### ***Investing Activities***

Net cash used in investing activities was \$1.4 billion in 2023, which primarily consisted of cash used for purchases of short-term investments of \$3.7 billion, \$546 million for purchases of property and equipment, and cash used in acquisitions, net of cash acquired of \$131 million, partially offset by proceeds from maturities of short-term investments of \$2.7 billion and sale of short-term investments of \$300 million.

Net cash provided by investing activities was \$2 billion in 2022, which primarily consisted of higher cash provided by maturities of short-term investments of \$4.3 billion and cash acquired as part of the acquisition of Xilinx of \$2.4 billion, partially offset by higher cash used for purchases of short-term investments of \$2.7 billion, cash used in the acquisition of Pensando Systems Inc. ("Pensando") of \$1.5 billion and \$450 million for purchases of property and equipment.

#### ***Financing Activities***

Net cash used in financing activities was \$1.1 billion in 2023, which primarily consisted of common stock repurchases of \$985 million under the Repurchase Program and repurchases to cover tax withholding on employee equity plans of \$427 million, partially offset by proceeds from the issuance of common stock under our employee equity plans of \$268 million.

Net cash used in financing activities was \$3.3 billion in 2022, which primarily consisted of common stock repurchases of \$3.7 billion under the Repurchase Program, higher repurchases to cover tax withholding on employee equity plans of \$406 million and repayment of debt of \$312 million, partially offset by proceeds from the issuance of debt of \$991 million and higher proceeds from the issuance of common stock under our employee equity plans of \$167 million.

#### **Off-Balance Sheet Arrangements**

As of December 30, 2023, we had no off-balance sheet arrangements.

**ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURE ABOUT MARKET RISK**

**Interest Rate Risk.** Our exposure to market risk for changes in interest rates relates primarily to our investment portfolio and long-term debt. We usually invest our cash in investments with short maturities or with frequent interest reset terms. Accordingly, our interest income fluctuates with short-term market conditions. As of December 30, 2023, our investment portfolio consisted of fixed income instruments, time deposits and commercial paper. Our primary aim with our investment portfolio is to invest available cash while preserving principal and meeting liquidity needs. In accordance with our investment policy, we place investments with high credit quality issuers and limit the amount of credit exposure to any one issuer based upon the issuer's credit rating. These securities are subject to interest rate risk and will decrease in value if market interest rates increase. A hypothetical 50 basis-point (half percentage point) increase or decrease in interest rates compared to rates at December 30, 2023 would have affected the fair value of our cash equivalent and investment portfolio by approximately \$7 million.

As of December 30, 2023, all of our outstanding long-term debt had fixed interest rates. Consequently, our exposure to market risk for changes in interest rates on reported interest expense and corresponding cash flows is minimal.

We will continue to monitor our exposure to interest rate risk.

**Default Risk.** We mitigate default risk in our investment portfolio by investing in only high credit quality securities and by constantly positioning our portfolio to respond to a significant reduction in a credit rating of any investment issuer or guarantor. Our portfolio includes investments in marketable debt securities with active secondary or resale markets to ensure portfolio liquidity. We are averse to principal loss and strive to preserve our invested funds by limiting default risk and market risk.

We actively monitor market conditions and developments specific to the securities and security classes in which we invest. We believe that we take a conservative approach to investing our funds in that we invest only in highly-rated debt securities with relatively short maturities and do not invest in securities which we believe involve a higher degree of risk. As of December 30, 2023, all of our investments in debt securities were A-rated by at least one of the rating agencies. While we believe we take prudent measures to mitigate investment-related risks, such risks cannot be fully eliminated as there are circumstances outside of our control.

**Foreign Exchange Risk.** As a result of our foreign operations, we incur costs and we carry assets and liabilities that are denominated in foreign currencies, while sales of products are primarily denominated in U.S. dollars.

We maintain a foreign currency hedging strategy which uses derivative financial instruments to mitigate the risks associated with changes in foreign currency exchange rates. This strategy takes into consideration all of our exposures. We do not use derivative financial instruments for trading or speculative purposes.

The following table provides information about our foreign currency forward contracts as of December 30, 2023 and December 31, 2022. All of our foreign currency forward contracts mature within 24 months.

	December 30, 2023			December 31, 2022		
	Notional Amount	Average Contract Rate	Estimated Fair Value Gain (Loss)	Notional Amount	Average Contract Rate	Estimated Fair Value Gain (Loss)
(In millions except contract rates)						
Foreign currency forward contracts:						
Chinese Renminbi	\$ 655	6.7593	\$ (10)	\$ 599	6.7848	\$ (3)
Canadian Dollar	645	1.3479	11	607	1.3137	(16)
Indian Rupee	514	84.6922	1	516	82.1493	(9)
Taiwan Dollar	171	29.3064	(3)	207	29.1231	(4)
Singapore Dollar	495	1.3314	6	259	1.3600	4
Euro	303	0.9017	1	142	0.9334	1
Pound Sterling	167	0.8057	2	88	0.8204	(1)
Japanese Yen	—	—	—	2	133.7593	—
Australian Dollar	—	—	—	1	1.4689	—
<b>Total</b>	<b>\$ 2,950</b>		<b>\$ 8</b>	<b>\$ 2,421</b>		<b>\$ (28)</b>

## ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

**Advanced Micro Devices, Inc.**  
**Consolidated Statements of Operations**

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions, except per share amounts)		
Net revenue	\$ 22,680	\$ 23,601	\$ 16,434
Cost of sales	11,278	11,550	8,505
Amortization of acquisition-related intangibles	942	1,448	—
Total cost of sales	12,220	12,998	8,505
Gross profit	10,460	10,603	7,929
Research and development	5,872	5,005	2,845
Marketing, general and administrative	2,352	2,336	1,448
Amortization of acquisition-related intangibles	1,869	2,100	—
Licensing gain	(34)	(102)	(12)
Operating income	401	1,264	3,648
Interest expense	(106)	(88)	(34)
Other income (expense), net	197	8	55
Income before income taxes and equity income	492	1,184	3,669
Income tax provision (benefit)	(346)	(122)	513
Equity income in investee	16	14	6
Net income	<u>\$ 854</u>	<u>\$ 1,320</u>	<u>\$ 3,162</u>
Earnings per share			
Basic	\$ 0.53	\$ 0.85	\$ 2.61
Diluted	\$ 0.53	\$ 0.84	\$ 2.57
Shares used in per share calculation			
Basic	1,614	1,561	1,213
Diluted	1,625	1,571	1,229

See accompanying notes to consolidated financial statements.

**Advanced Micro Devices, Inc.**  
**Consolidated Statements of Comprehensive Income**

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions)		
Net income	\$ 854	\$ 1,320	\$ 3,162
Other comprehensive income (loss)			
Net change in unrealized gains (losses) on cash flow hedges	31	(38)	(20)
Total comprehensive income	<u>\$ 885</u>	<u>\$ 1,282</u>	<u>\$ 3,142</u>

See accompanying notes to consolidated financial statements.

**Advanced Micro Devices, Inc.**  
**Consolidated Balance Sheets**

	December 30, 2023	December 31, 2022
(In millions, except par value amounts)		
<b>ASSETS</b>		
<b>Current assets:</b>		
Cash and cash equivalents	\$ 3,933	\$ 4,835
Short-term investments	1,840	1,020
Accounts receivable, net	5,376	4,126
Inventories	4,351	3,771
Receivables from related parties	9	2
Prepaid expenses and other current assets	1,259	1,265
<b>Total current assets</b>	<b>16,768</b>	<b>15,019</b>
Property and equipment, net	1,589	1,513
Operating lease right-of-use assets	633	460
Goodwill	24,262	24,177
Acquisition-related intangibles	21,363	24,118
Investment: equity method	99	83
Deferred tax assets	366	58
Other non-current assets	2,805	2,152
<b>Total assets</b>	<b>\$ 67,885</b>	<b>\$ 67,580</b>
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>		
<b>Current liabilities:</b>		
Accounts payable	\$ 2,055	\$ 2,493
Payables to related parties	363	463
Accrued liabilities	3,082	3,077
Current portion of long-term debt, net	751	—
Other current liabilities	438	336
<b>Total current liabilities</b>	<b>6,689</b>	<b>6,369</b>
Long-term debt, net of current portion	1,717	2,467
Long-term operating lease liabilities	535	396
Deferred tax liabilities	1,202	1,934
Other long-term liabilities	1,850	1,664
Commitments and Contingencies (see Notes 16 and 17)		
<b>Stockholders' equity:</b>		
Capital stock:		
Common stock, par value \$0.01; shares authorized: 2,250; shares issued: 1,663 and 1,645; shares outstanding: 1,616 and 1,612	17	16
Additional paid-in capital	59,676	58,005
Treasury stock, at cost (shares held: 47 and 33)	(4,514)	(3,099)
Retained earnings (Accumulated deficit)	723	(131)
Accumulated other comprehensive loss	(10)	(41)
<b>Total stockholders' equity</b>	<b>55,892</b>	<b>54,750</b>
<b>Total liabilities and stockholders' equity</b>	<b>\$ 67,885</b>	<b>\$ 67,580</b>

See accompanying notes to consolidated financial statements.

**Advanced Micro Devices, Inc.**  
**Consolidated Statements of Stockholders' Equity**

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
(In millions)			
<b>Capital stock</b>			
Common stock			
Balance, beginning of period	\$ 16	\$ 12	\$ 12
Common stock issued under employee equity plans	1	—	—
Issuance of common stock as consideration for acquisition	—	4	—
Balance, end of period	<u>\$ 17</u>	<u>\$ 16</u>	<u>\$ 12</u>
Additional paid-in capital			
Balance, beginning of period	\$ 58,005	\$ 11,069	\$ 10,544
Common stock issued under employee equity plans	273	167	104
Stock-based compensation	1,384	1,080	379
Issuance of common stock to settle convertible debt	1	—	25
Issuance of common stock as consideration for acquisition	—	45,372	—
Fair value of replacement share-based awards related to acquisition	—	275	—
Issuance of common stock warrants	13	42	17
Balance, end of period	<u>\$ 59,676</u>	<u>\$ 58,005</u>	<u>\$ 11,069</u>
Treasury stock			
Balance, beginning of period	\$ (3,099)	\$ (2,130)	\$ (131)
Repurchases of common stock	(985)	(3,702)	(1,762)
Reissuance of treasury stock as consideration for acquisition	—	3,138	—
Common stock repurchases for tax withholding on employee equity plans	(430)	(405)	(237)
Balance, end of period	<u>\$ (4,514)</u>	<u>\$ (3,099)</u>	<u>\$ (2,130)</u>
<b>Retained earnings (Accumulated deficit)</b>			
Balance, beginning of period	\$ (131)	\$ (1,451)	\$ (4,605)
Cumulative effect of adoption of accounting standard	—	—	(8)
Net income	854	1,320	3,162
Balance, end of period	<u>\$ 723</u>	<u>\$ (131)</u>	<u>\$ (1,451)</u>
<b>Accumulated other comprehensive income (loss)</b>			
Balance, beginning of period	\$ (41)	\$ (3)	\$ 17
Other comprehensive income (loss)	31	(38)	(20)
Balance, end of period	<u>\$ (10)</u>	<u>\$ (41)</u>	<u>\$ (3)</u>
<b>Total stockholders' equity</b>	<u><u>\$ 55,892</u></u>	<u><u>\$ 54,750</u></u>	<u><u>\$ 7,497</u></u>

See accompanying notes to consolidated financial statements.

**Advanced Micro Devices, Inc.**  
**Consolidated Statements of Cash Flows**

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
(In millions)			
<b>Cash flows from operating activities:</b>			
Net income	\$ 854	\$ 1,320	\$ 3,162
<b>Adjustments to reconcile net income to net cash provided by operating activities:</b>			
Depreciation and amortization	3,453	4,174	407
Stock-based compensation	1,384	1,081	379
Amortization of operating lease right-of-use assets	98	88	56
Amortization of inventory fair value adjustment	3	189	—
Loss on debt redemption, repurchase and conversion	—	—	7
Loss on sale or disposal of property and equipment	11	16	34
Deferred income taxes	(1,019)	(1,505)	308
(Gains) losses on equity investments, net	(1)	62	(56)
Other	(67)	(14)	(2)
<b>Changes in operating assets and liabilities:</b>			
Accounts receivable, net	(1,250)	(1,091)	(640)
Inventories	(580)	(1,401)	(556)
Receivables from related parties	(7)	(13)	8
Prepaid expenses and other assets	(472)	(1,197)	(920)
Payables to related parties	(100)	379	7
Accounts payable	(419)	931	801
Accrued and other liabilities	(221)	546	526
<b>Net cash provided by operating activities</b>	<b>1,667</b>	<b>3,565</b>	<b>3,521</b>
<b>Cash flows from investing activities:</b>			
Purchases of property and equipment	(546)	(450)	(301)
Purchases of short-term investments	(3,722)	(2,667)	(2,056)
Proceeds from maturity of short-term investments	2,687	4,310	1,678
Proceeds from sale of short-term investments	300	—	—
Cash received from acquisition of Xilinx	—	2,366	—
Acquisitions, net of cash acquired	(131)	(1,544)	—
Other	(11)	(16)	(7)
<b>Net cash provided by (used in) investing activities</b>	<b>(1,423)</b>	<b>1,999</b>	<b>(686)</b>
<b>Cash flows from financing activities:</b>			
Proceeds from debt, net of issuance costs	—	991	—
Repayment of debt	—	(312)	—
Proceeds from sales of common stock through employee equity plans	268	167	104
Repurchases of common stock	(985)	(3,702)	(1,762)
Common stock repurchases for tax withholding on employee equity plans	(427)	(406)	(237)
Other	(2)	(2)	—
<b>Net cash used in financing activities</b>	<b>(1,146)</b>	<b>(3,264)</b>	<b>(1,895)</b>
<b>Net increase (decrease) in cash and cash equivalents</b>	<b>(902)</b>	<b>2,300</b>	<b>940</b>
Cash and cash equivalents at beginning of year	4,835	2,535	1,595
<b>Cash and cash equivalents at end of year</b>	<b>\$ 3,933</b>	<b>\$ 4,835</b>	<b>\$ 2,535</b>



**Advanced Micro Devices, Inc.**  
**Consolidated Statements of Cash Flows**

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
Supplemental cash flow information:	(In millions)		
Cash paid during the year for:			
Interest	\$ 84	\$ 85	\$ 25
Income taxes, net of refund	\$ 523	\$ 685	\$ 35
Non-cash investing and financing activities:			
Purchases of property and equipment, accrued but not paid	\$ 106	\$ 157	\$ 72
Issuance of common stock and treasury stock for the acquisition of Xilinx	\$ —	\$ 48,514	\$ —
Fair value of replacement share-based awards related to acquisition of Xilinx	\$ —	\$ 275	\$ —
Non-cash activities for leases:			
Operating lease right-of-use assets acquired by assuming related liabilities	\$ 273	\$ 115	\$ 227

See accompanying notes to consolidated financial statements.

**Advanced Micro Devices, Inc.**

**Notes to Consolidated Financial Statements**

**NOTE 1 – The Company**

Advanced Micro Devices, Inc. is a global semiconductor company. References herein to AMD or the Company mean Advanced Micro Devices, Inc. and its consolidated subsidiaries. AMD's products include x86 microprocessors (CPUs) and graphics processing units (GPUs), as standalone devices or as incorporated into accelerated processing units (APUs), chipsets, data center and professional GPUs, embedded processors, semi-custom System-on-Chip (SoC) products, microprocessor and SoC development services and technology, data processing units (DPUs), Field Programmable Gate Arrays (FPGAs), System on Modules (SOMs), Smart Network Interface Cards (SmartNICs), AI Accelerators and Adaptive SoC products. From time to time, the Company may also sell or license portions of its intellectual property (IP) portfolio.

**NOTE 2 – Basis of Presentation and Significant Accounting Policies**

*Fiscal Year.* The Company uses a 52- or 53-week fiscal year ending on the last Saturday in December. Fiscal 2023, 2022 and 2021 ended on December 30, 2023, December 31, 2022 and December 25, 2021, respectively. Fiscal 2023 and 2021 each consisted of 52 weeks, while fiscal 2022 consisted of 53 weeks.

*Principles of Consolidation.* The consolidated financial statements include the Company's accounts and those of its wholly-owned subsidiaries. Upon consolidation, all inter-company accounts and transactions have been eliminated.

*Reclassification.* Certain immaterial prior period amounts have been reclassified to conform to current period presentation.

*Use of Estimates.* The preparation of consolidated financial statements in conformity with U.S. generally accepted accounting principles (U.S. GAAP) requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of commitments and contingencies at the date of the financial statements and the reported amounts of revenues and expenses during the reporting periods. Actual results are likely to differ from those estimates, and such differences may be material to the financial statements. Areas where management uses subjective judgment include, but are not limited to, revenue allowances, inventory valuation, valuation of goodwill and long-lived and intangible assets, and income taxes.

**Revenue Recognition**

Revenue is recognized when a customer obtains control of promised goods or services and is recognized in an amount that reflects the consideration which the Company expects to receive in exchange for those goods or services. Sales, value-added, and other taxes collected concurrently with the provision of goods or services are excluded from revenue. Shipping and handling costs associated with product sales are included in cost of sales. Substantially all the Company's revenue is derived from product sales, representing a single performance obligation.

Customers are generally required to pay for products and services within the Company's standard contractual terms, which are typically net 30 to 60 days. The Company has determined that it does not have significant financing components in its contracts with customers.

*Non-custom products*

The Company transfers control and recognizes revenue when non-custom products are shipped to customers, which includes original equipment manufacturers (OEM) and distributors, in accordance with the shipping terms of the sale. Non-custom product arrangements generally comprise a single performance obligation. Certain OEMs may be entitled to rights of return and rebates under OEM agreements. The Company also sells to distributors under terms allowing the majority of distributors certain rights of return and price protection on unsold merchandise held by them. The Company estimates the amount of variable consideration under OEM and distributor arrangements and, accordingly, records a provision for product returns, allowances for price protection and rebates based on actual historical experience and any known events.

The Company offers incentive programs to certain customers, including cooperative advertising, marketing promotions, volume-based incentives and special pricing arrangements. Where funds provided for such programs can be estimated, the Company recognizes a reduction to revenue at the time the related revenue is recognized; otherwise, the Company recognizes such reduction to revenue at the later of when: i) the related revenue transaction occurs; or ii) the program is offered. For transactions where the Company reimburses a customer for a portion of the customer's cost to perform specific product advertising or marketing and promotional activities, such amounts are recognized as a reduction to revenue unless they qualify for expense recognition.

Constraints of variable consideration have not been material.

#### *Custom products*

Custom products, which are primarily associated with the Company's Gaming segment, are sold under non-cancellable purchase orders, for which the Company has an enforceable right to payment, and which have no alternative use to the Company at contract inception, are recognized as revenue, over the time of production of the products by the Company. The Company utilizes a cost-based input method, calculated as cost incurred plus estimated margin, to determine the amount of revenue to recognize for in-process or completed customer orders at a reporting date. The Company believes that a cost-based input method is the most appropriate manner to measure how the Company satisfies its performance obligations to customers because the effort and costs incurred best depict the Company's satisfaction of its performance obligation.

Sales of custom products are not subject to a right of return and arrangements generally involve a single performance obligation. Generally, there are no variable consideration estimates associated with custom products.

#### *Development and intellectual property licensing agreements*

From time to time, the Company may enter into arrangements with customers that combine the provision of development services and a license to the right to use the Company's IP. These arrangements are deemed to be single or multiple performance obligations based upon the nature of the arrangements. Revenue is recognized upon the transfer of control, over time or at a point in time, depending on the nature of the arrangements. The Company evaluates whether the licensing component is distinct. A licensing component is distinct if it is both (i) capable of being distinct and (ii) distinct in the context of the arrangement. If the license is not distinct, it is combined with the development services as a single performance obligation and recognized over time. If the license is distinct, revenue is recognized at a point in time when the customer has the ability to benefit from the license.

From time to time, the Company may enter into arrangements with customers that solely involve the sale or licensing of its patents or IP. Generally, there are no performance obligations beyond transferring the designated license to the Company's patents or IP. Accordingly, revenue is recognized at a point in time when the customer has the ability to benefit from the license.

There are no variable consideration estimates associated with either combined development and IP arrangements or for standalone arrangements involving either the sale or licensing of IP.

#### **Inventories**

The Company values inventory at standard cost, adjusted to approximate the lower of actual cost or estimated net realizable value using assumptions about future demand and market conditions. In determining excess or obsolescence reserves for its products, the Company considers assumptions such as changes in business and economic conditions, other-than-temporary decreases in demand for its products, and changes in technology or customer requirements. In determining the lower of cost or net realizable value reserves, the Company considers assumptions such as recent historical sales activity and selling prices, as well as estimates of future selling prices. The Company fully reserves for inventories and non-cancellable purchase orders for inventory deemed obsolete. The Company performs periodic reviews of inventory items to identify excess inventories on hand by comparing on-hand balances and non-cancellable purchase orders to anticipated usage using recent historical activity as well as anticipated or forecasted demand. If estimates of customer demand diminish further or market conditions become less favorable than those projected by the Company, additional inventory carrying value adjustments may be required.

## **Business Combinations**

The Company is required to use the acquisition method of accounting for business combinations. The acquisition method of accounting requires the Company to allocate the purchase consideration to the assets acquired and liabilities assumed from the acquiree based on their respective fair values as of the acquisition date. The excess of the fair value of purchase consideration over the fair value of these assets acquired and liabilities assumed is recorded as goodwill. When determining the fair values of assets acquired and liabilities assumed, management makes significant estimates and assumptions, especially with respect to intangible assets. Critical estimates in valuing intangible assets include, but are not limited to, expected future revenue growth rates and margins, future changes in technology, time to recreate customer relationships, useful lives, and discount rates. Fair value estimates are based on the assumptions that management believes a market participant would use in pricing the asset or liability. These estimates are inherently uncertain and, therefore, actual results may differ from the estimates made.

## **Goodwill**

The Company performs its goodwill impairment analysis as of the first day of the fourth quarter of each year and, if certain events or circumstances indicate that an impairment loss may have been incurred, on a more frequent basis. The analysis may include both qualitative and quantitative factors to assess the likelihood of an impairment.

The Company has the option to first perform qualitative testing to determine if it is more likely than not that the fair value of a reporting unit exceeds its carrying amount. Qualitative factors include industry and market considerations, overall financial performance, share price trends and market capitalization and Company-specific events. If the Company concludes it is more likely than not that the fair value of a reporting unit exceeds its carrying amount, the Company does not proceed to perform a quantitative impairment test.

If the Company concludes it is more likely than not that the fair value of a reporting unit is less than its carrying value or elects to bypass the qualitative test, a quantitative goodwill impairment test will be performed by comparing the fair value of each reporting unit to its carrying value. If a reporting unit's fair value is determined to be less than its carrying value, a goodwill impairment charge is recognized for the amount by which the reporting unit's fair value is less than its carrying value, not to exceed the total amount of goodwill allocated to that reporting unit.

## **Long-Lived and Intangible Assets**

Long-lived and intangible assets to be held and used are reviewed for impairment if indicators of potential impairment exist and at least annually for indefinite-lived intangible assets. Impairment indicators are reviewed on a quarterly basis. Assets are grouped and evaluated for impairment at the lowest level of identifiable cash flows.

When indicators of impairment exist and assets are held for use, the Company estimates future undiscounted cash flows attributable to the related asset groups. In the event such cash flows are not expected to be sufficient to recover the recorded value of the assets, the assets are written down to their estimated fair values based on the expected discounted future cash flows attributable to the asset group or based on appraisals. Factors affecting impairment of assets held for use include the ability of the specific assets to generate separately identifiable positive cash flows.

When assets are removed from operations and held for sale, the Company estimates impairment losses as the excess of the carrying value of the assets over their fair value. Market conditions are among the factors affecting impairment of assets held for sale. Changes in any of these factors could necessitate impairment recognition in future periods for assets held for use or assets held for sale.

## **Cash Equivalents**

Cash equivalents consist of financial instruments that are readily convertible into cash and have original maturities of three months or less at the time of purchase.

## **Accounts Receivable**

Accounts receivable are primarily comprised of trade receivables presented net of rebates, price protection and an allowance for credit loss. Accounts receivable also include unbilled receivables, which primarily represent work completed on development services recognized as revenue but not yet invoiced to customers and custom products under non-cancellable purchase orders that have no alternative use to the Company at contract inception, for which revenue has been recognized but not yet invoiced to customers. All unbilled accounts receivables are expected to be billed and collected within twelve months.

The Company manages its exposure to customer credit risk through credit limits, credit lines, ongoing monitoring procedures and credit approvals. Furthermore, the Company performs in-depth credit evaluations of all new customers and, at intervals, for existing customers. From this, the Company may require letters of credit, bank or corporate guarantees or advance payments if deemed necessary. The Company maintains an allowance for credit loss, consisting of known specific troubled accounts as well as an amount based on overall estimated potential uncollectible accounts receivable based on historical experience and review of their current credit quality. The Company does not believe the receivable balance from its customers represents a significant credit risk.

## **Investments**

*Available-for-Sale Debt Securities.* The Company classifies its investments in debt securities at the date of acquisition as available-for-sale. Available-for-sale debt securities are reported at fair value with the related unrealized gains and losses included, net of tax, in accumulated other comprehensive income (loss), a component of stockholders' equity. If an available-for-sale debt security's fair value is less than its amortized cost basis, then the Company evaluates whether the decline is the result of a credit loss, in which case an impairment is recorded through an allowance for credit losses. Unrealized gains and losses not attributable to credit losses are included, net of tax, in accumulated other comprehensive income (loss), a component of stockholders' equity. The Company classifies and accounts for its short-term investments in debt securities as available-for-sale as the Company may sell these securities at any time for use in its current operations or for other purposes. As a result, the Company classifies its short-term investments, including securities with stated maturities beyond twelve months, within current assets in the Consolidated Balance Sheets.

*Non-marketable Equity Securities.* The Company's investments in non-marketable securities of privately-held companies are accounted for under the measurement alternative, defined as cost, less impairments, adjusted for subsequent observable price changes and are periodically assessed for impairment when events or circumstances indicate that a decline in value may have occurred. The Company's periodic assessment of impairment is made by considering available evidence, including the investee's general market and industry conditions and product development status. The Company also assesses the investee's ability to meet business milestones, its financial condition, and near-term prospects, including the rate at which the investee is using its cash, the investee's need for possible additional funding at a lower valuation and any bona fide offer to purchase the investee.

## **Fair Value Measurements**

The Company's financial instruments are measured and recorded at fair value on a recurring basis, except for non-marketable equity investments in privately-held companies, which are generally accounted for under the measurement alternative.

### *Fair Value Hierarchy*

The fair value framework requires the categorization of assets and liabilities into three levels based upon the assumptions (inputs) used to price the assets or liabilities. The guidance for fair value measurements requires that assets and liabilities carried at fair value be classified and disclosed in one of the following categories:

Level 1 — Quoted (unadjusted) prices in active markets for identical assets or liabilities.

Level 2 — Observable inputs other than quoted prices included in Level 1, such as quoted prices for similar assets or liabilities in active markets; quoted prices for identical or similar assets or liabilities in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the asset or liability.

Level 3 — Unobservable inputs to the valuation methodology that are supported by little or no market activity and that are significant to the measurement of the fair value of the assets or liabilities. Level 3 assets and liabilities include those whose fair value measurements are determined using pricing models, discounted cash flow methodologies or similar valuation techniques, as well as significant management judgment or estimation.

### **Property and Equipment**

Property and equipment are stated at cost. Depreciation and amortization are provided on a straight-line basis over the estimated useful lives of two to 15 years for equipment, 34 to 44 years for buildings, and leasehold improvements are measured by the shorter of the remaining terms of the leases or the estimated useful economic lives of the improvements.

### **Leases**

Operating and finance leases are recorded as right-of-use (ROU) assets and lease liabilities on the Company's balance sheet. ROU assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments arising from the lease. Operating and finance lease ROU assets and liabilities are initially recognized based on the present value of lease payments over the lease term. In determining the present value of lease payments, the Company uses the implicit interest rate if readily determinable. When the implicit interest rate is not readily determinable, the Company uses its incremental borrowing rate, which is based on its collateralized borrowing capabilities over a similar term of the lease payments. When using the incremental borrowing rate, the Company utilizes the consolidated group incremental borrowing rate. Lease expense for operating lease payments is recognized on a straight-line basis over the lease term. The Company has elected the accounting policy to not recognize ROU assets and lease liabilities that arise from short-term (12 months or less) leases for any class of underlying asset. Operating leases are included in operating lease ROU assets, other current liabilities, and long-term operating lease liabilities on the Company's consolidated balance sheets. The Company's finance leases are immaterial.

### **Foreign Currency Translation/Transactions**

The functional currency of the Company's foreign subsidiaries is the U.S. dollar. Assets and liabilities denominated in non-U.S. dollars have been remeasured into U.S. dollars at current exchange rates for monetary assets and liabilities and historical exchange rates for non-monetary assets and liabilities. Non-U.S. dollar denominated transactions have been remeasured at average exchange rates in effect during each period, except for those cost of sales and expense transactions related to non-monetary balance sheet amounts which have been remeasured at historical exchange rates. The gains or losses from foreign currency remeasurement are included in earnings.

### **Marketing and Advertising Expenses**

Advertising costs are expensed as incurred. In addition, the Company's marketing and advertising expenses include certain cooperative advertising funding obligations under customer incentive programs, which costs are recorded upon agreement with customers and vendor partners. Cooperative advertising expenses are recorded as marketing, general and administrative expense to the extent the cash paid does not exceed the estimated fair value of the advertising benefit received. Any excess of cash paid over the estimated fair value of the advertising benefit received is recorded as a reduction of revenue. Total marketing and advertising expenses for 2023, 2022 and 2021 were approximately \$695 million, \$683 million and \$578 million, respectively.

### **Stock-Based Compensation**

The Company estimates stock-based compensation cost for stock options at the grant date based on the option's fair value as calculated by the Black-Scholes model. For time-based restricted stock units (RSUs), fair value is based on the closing price of the Company's common stock on the grant date. The Company estimates the grant-date fair value of RSUs that involve a market condition using the Monte Carlo simulation model. The Company estimates the grant-date fair value of stock to be issued under the Company's Employee Stock Purchase plan (ESPP) using the Black-Scholes model. Compensation expense is recognized over the vesting period of the applicable award using the straight-line method, except for the compensation expense related to RSUs with performance or market conditions (PRSUs), which are recognized ratably for each vesting tranche from the service inception date to the end of the requisite service period. Forfeiture rates are estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates.

## **Contingencies**

From time to time the Company is a defendant or plaintiff in various legal actions that arise in the normal course of business. The Company is also subject to income tax, indirect tax or other tax claims by tax agencies in jurisdictions in which it conducts business. In addition, the Company is a party to environmental matters including local, regional, state and federal government clean-up activities at or near locations where the Company currently or has in the past conducted business. The Company is required to assess the likelihood of any adverse judgments or outcomes to these matters as well as potential ranges of reasonably possible losses. A determination of the amount of reserves required for these commitments and contingencies that would be charged to earnings, if any, includes assessing the probability of adverse outcomes and estimating the amount of potential losses. The required reserves, if any, may change due to new developments in each matter or changes in circumstances such as a change in settlement strategy.

## **Income Taxes**

The Company computes the provision for income taxes using the liability method and recognizes deferred tax assets and liabilities for temporary differences between financial statement and income tax bases of assets and liabilities, as well as for operating loss and tax credit carryforwards. The Company measures deferred tax assets and liabilities using tax rates applicable to taxable income in effect for the years in which those tax assets are expected to be realized or settled and provides a valuation allowance against deferred tax assets when it cannot conclude that it is more likely than not that some or all deferred tax assets will be realized. The assessment requires significant judgment and is performed in each of the applicable taxing jurisdictions. In addition, the Company recognizes tax benefits from uncertain tax positions only if it is more likely than not that they will be sustained, based on the technical merits of the positions, on examination by the jurisdictional tax authority. Interest and penalties related to income taxes are recorded in the Income tax provision (benefit) line in the Consolidated Statements of Operations. The Company is subject to the Global Intangible Low Taxed Income (GILTI) tax in the U.S. and recognizes deferred taxes for temporary basis differences that are expected to reverse as GILTI tax in future years.

## **Recently Issued Accounting Standard Updates Not Yet adopted**

In November 2023, the Financial Accounting Standards Board (FASB) issued Accounting Standard Update (ASU) 2023-07 Segment Reporting (Topic 280) Improvements to Reportable Segment Disclosures to enhance disclosures about significant segment expenses. This ASU is effective for the Company's fiscal year 2024 and interim periods in fiscal year 2025. Early adoption is permitted. The Company is currently evaluating segment expense disclosures related to its annual report for fiscal year 2024.

In December 2023, the FASB issued ASU 2023-09 Income Taxes (Topic 740) Improvements to Income Tax Disclosures that requires disclosure of disaggregated income taxes paid, prescribes standard categories for the components of the effective tax rate reconciliation, and modifies other income tax-related disclosures. This ASU is effective for the Company's fiscal year 2025. Early adoption is permitted. The Company is currently evaluating income tax disclosures related to its annual report for fiscal year 2025.

Although there are several other new accounting pronouncements issued by the FASB, the Company does not believe any of these accounting pronouncements had or will have a material impact on its Consolidated Financial Statements.

## **NOTE 3 – Supplemental Financial Statement Information**

### ***Accounts Receivable, net***

As of December 30, 2023 and December 31, 2022, Accounts receivable, net included unbilled accounts receivable of \$1.1 billion. Unbilled accounts receivables primarily represent work completed for development services and on custom products for which revenue has been recognized but not yet invoiced. All unbilled accounts receivable are expected to be billed and collected within 12 months.

<b>Inventories</b>	December 30, 2023	December 31, 2022
	(In millions)	
Raw materials	\$ 279	\$ 231
Work in process	3,260	2,648
Finished goods	812	892
Total inventories	<u>\$ 4,351</u>	<u>\$ 3,771</u>

<b>Property and Equipment, net</b>	December 30, 2023	December 31, 2022
	(In millions)	
Land, building and leasehold improvements	\$ 821	\$ 714
Equipment	2,346	2,163
Construction in progress	209	143
Property and equipment, gross	3,376	3,020
Accumulated depreciation	(1,787)	(1,507)
Total property and equipment, net	<u>\$ 1,589</u>	<u>\$ 1,513</u>

Depreciation expense for 2023, 2022 and 2021 was \$441 million, \$439 million and \$296 million, respectively.

<b>Accrued Liabilities</b>	December 30, 2023	December 31, 2022
	(In millions)	
Accrued marketing programs	\$ 827	\$ 876
Accrued compensation and benefits	884	701
Customer program liabilities	544	859
Other accrued and current liabilities	827	641
Total accrued liabilities	<u>\$ 3,082</u>	<u>\$ 3,077</u>

### Revenue

Revenue allocated to remaining performance obligations that are unsatisfied (or partially unsatisfied) include amounts received from customers and amounts that will be invoiced and recognized as revenue in future periods for development services, IP licensing and product revenue. As of December 30, 2023, the aggregate transaction price allocated to remaining performance obligations under contracts with an original expected duration of more than one year was \$137 million, of which \$85 million is expected to be recognized in the next 12 months. The revenue allocated to remaining performance obligations does not include amounts which have an original expected duration of one year or less.

Revenue recognized over time associated with custom products and development services accounted for approximately 25%, 24% and 23% of the Company's revenue in 2023, 2022 and 2021, respectively.

### NOTE 4 – Segment Reporting

Management, including the Chief Operating Decision Maker (CODM), who is the Company's Chief Executive Officer, reviews and assesses operating performance using segment net revenue and operating income (loss). These performance measures include the allocation of expenses to the reportable segments based on management's judgment.



The Company's four reportable segments are:

- the Data Center segment, which primarily includes server microprocessors (CPUs), graphics processing units (GPUs), accelerated processing units (APUs), data processing units (DPUs), Field Programmable Gate Arrays (FPGAs), Smart Network Interface Cards (SmartNICs), Artificial Intelligence (AI) accelerators and Adaptive System-on-Chip (SoC) products for data centers;
- the Client segment, which primarily includes CPUs, APUs, and chipsets for desktop, notebook and handheld personal computers;
- the Gaming segment, which primarily includes discrete GPUs, and semi-custom SoC products and development services; and
- the Embedded segment, which primarily includes embedded CPUs, GPUs, APUs, FPGAs, System on Modules (SOMs), and Adaptive SoC products.

From time to time, the Company may also sell or license portions of its IP portfolio.

In addition to these reportable segments, the Company has an All Other category, which is not a reportable segment. This category primarily includes certain expenses and credits that are not allocated to any of the reportable segments because the CODM does not consider these expenses and credits in evaluating the performance of the reportable segments. This category primarily includes amortization of acquisition-related intangibles, employee stock-based compensation expense, acquisition-related and other costs, and licensing gain. Acquisition-related and other costs primarily include transaction costs, purchase price adjustments for inventory, certain compensation charges, contract termination and workforce rebalancing charges.

The following table provides a summary of net revenue and operating income (loss) by segment for 2023, 2022 and 2021.

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions)		
<b>Net revenue:</b>			
Data Center	\$ 6,496	\$ 6,043	\$ 3,694
Client	4,651	6,201	6,887
Gaming	6,212	6,805	5,607
Embedded	5,321	4,552	246
<b>Total net revenue</b>	<b>\$ 22,680</b>	<b>\$ 23,601</b>	<b>\$ 16,434</b>
<b>Operating income (loss):</b>			
Data Center	\$ 1,267	\$ 1,848	\$ 991
Client	(46)	1,190	2,088
Gaming	971	953	934
Embedded	2,628	2,252	44
All Other	(4,419)	(4,979)	(409)
<b>Total operating income</b>	<b>\$ 401</b>	<b>\$ 1,264</b>	<b>\$ 3,648</b>

The following table provides items included in All Other category:

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions)		
<b>Operating loss:</b>			
Stock-based compensation expense	\$ 1,384	\$ 1,081	\$ 379
Acquisition-related and other costs	258	452	42
Amortization of acquisition-related intangibles	2,811	3,548	—
Licensing gain	(34)	(102)	(12)
<b>Total operating loss</b>	<b>\$ 4,419</b>	<b>\$ 4,979</b>	<b>\$ 409</b>

The Company does not discretely allocate assets to its operating segments, nor does management evaluate operating segments using discrete asset information.

The following table summarizes sales to external customers by geographic regions based on billing location of the customer:

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions)		
United States	\$ 7,837	\$ 8,049	\$ 4,656
Japan	4,629	4,177	2,381
China (including Hong Kong)	3,417	5,207	4,096
Singapore	2,231	1,380	1,389
Europe	2,030	1,773	1,249
Taiwan	1,841	2,369	2,091
Other countries	695	646	572
Total sales to external customers	<u>\$ 22,680</u>	<u>\$ 23,601</u>	<u>\$ 16,434</u>

The following table summarizes sales to major customers that accounted for at least 10% of the Company's consolidated net revenue for the respective years:

	Segment	Year Ended		
		December 30, 2023	December 31, 2022	December 25, 2021
Customer A	Gaming	18 %	16 %	14 %
Customer B	Client	*	*	11 %

\* Less than 10%

The following table summarizes Property and equipment, net by geographic areas:

	December 30, 2023	December 31, 2022
		(In millions)
United States	\$ 1,143	\$ 1,102
Singapore	144	132
India	86	67
Canada	84	80
Ireland	46	48
China	42	42
Other countries	44	42
Total property and equipment, net	<u>\$ 1,589</u>	<u>\$ 1,513</u>

## NOTE 5 – Business Combinations

### Fiscal Year 2023 Acquisitions

During the year ended December 30, 2023, the Company completed business acquisitions for a total consideration of \$134 million that resulted in the recognition of \$49 million of identifiable net assets and \$85 million of goodwill. The financial results of these acquired businesses, which were not material, were included in the Company's Consolidated Statements of Operations from their respective dates of acquisition under the Data Center, Client and Embedded segments.

**Fiscal Year 2022 Acquisitions****Pensando Acquisition**

On May 26, 2022 (Pensando Acquisition Date), the Company completed the acquisition of all issued and outstanding shares of Pensando, a leader in next-generation distributed computing, for a transaction valued at approximately \$1.9 billion. The recorded purchase consideration of \$1.7 billion is net of deferred cash compensation requiring future services and other customary closing adjustments. The acquisition of Pensando and its leading distributed services platform expands the Company's ability to offer leadership solutions for cloud, enterprise, and edge customers.

The purchase consideration was allocated as follows:

	(In millions)
Cash and cash equivalents	\$ 111
Accounts receivable	31
Inventory	66
Prepaid expenses and other current assets	43
Property and equipment	11
Deferred tax assets	22
Acquisition-related intangibles	349
<b>Total Assets</b>	<b>633</b>
Accounts payable	15
Accrued and other liabilities	61
<b>Total Liabilities</b>	<b>76</b>
Fair value of net assets acquired	557
Goodwill	1,098
<b>Total purchase consideration</b>	<b>\$ 1,655</b>

The Company allocated the purchase price to tangible and identified intangible assets acquired and liabilities assumed based on the estimates of their fair values, which were determined using generally accepted valuation techniques based on estimates and assumptions made by management. Goodwill arising from the Pensando acquisition was assigned to the Company's Data Center segment. Goodwill was primarily attributed to expanded market opportunities expected to be achieved from the integration of Pensando. Goodwill is not expected to be deductible for income tax purposes.

Following are details of the purchase consideration allocated to acquired intangible assets:

	Fair Value (In millions)	Weighted-average estimated useful life (In years)
Developed technology <sup>(1)</sup>	\$ 60	4 years
Customer relationships <sup>(2)</sup>	34	3 years
Customer backlog <sup>(3)</sup>	16	1 year
Product trademarks <sup>(4)</sup>	19	5 years
Identified intangible assets subject to amortization	129	
In-process research and development (IPR&D) not subject to amortization <sup>(5)</sup>	220	N/A
Total identified intangible assets acquired	<u>\$ 349</u>	

1. The fair value of developed technology was determined using the income approach, specifically the multi-period excess earnings method.
2. Customer relationships represent the fair value of existing contractual relationships and customer loyalty determined based on existing relationships using the income approach, specifically the with and without method.
3. Customer backlog represents the fair value of non-cancellable customer contract orders using the income approach, specifically the multi-period excess earnings method.
4. Product trademarks primarily relate to the Pensando product-related trademarks, and the fair value was determined by applying the income approach, specifically the relief from royalty method.
5. The fair value of IPR&D was determined using the income approach, specifically the multi-period excess earnings method.

The fair value of the identified intangible assets subject to amortization are amortized over the assets' estimated useful lives based on the pattern in which the economic benefits are expected to be received to cost of sales and operating expenses.

IPR&D consists of projects that have not yet reached technological feasibility as of the acquisition date. Accordingly, the Company recorded an indefinite-lived intangible asset of \$220 million for the fair value of these projects, which will initially not be amortized. Instead, these projects will be tested for impairment annually and whenever events or changes in circumstances indicate that these projects may be impaired. Once the project reaches technological feasibility, the Company will begin to amortize the intangible assets over their estimated useful lives.

From the Pensando Acquisition Date to December 30, 2023, the Consolidated Statements of Operations include immaterial revenue and operating results attributable to Pensando, which are reported under the Data Center segment.

In 2023 and 2022, Pensando acquisition-related costs of \$190 million and \$102 million was recorded under Cost of sales, Research and development, and Marketing, general and administrative expenses on the Company's Consolidated Statements of Operations. Acquisition-related costs are primarily comprised of direct transaction costs, fair value adjustments for acquired inventory and certain compensation charges.

#### ***Xilinx Acquisition***

On February 14, 2022 (Xilinx Acquisition Date), the Company completed the acquisition of all issued and outstanding shares of Xilinx, a leading provider of adaptive computing solutions, for a total purchase consideration of \$48.8 billion (\$46.4 billion, net of cash acquired of \$2.4 billion). The acquisition of Xilinx expands the Company's product portfolio to include adaptable hardware platforms that enable hardware acceleration and rapid innovation across a variety of technologies. With the acquisition of Xilinx, the Company now offers FPGAs, Adaptive SoC products and ACAP products. The purchase consideration consisted of \$48.5 billion of fair value of 429 million shares of the Company's common stock issued to Xilinx stockholders and \$275 million of fair value of replacement equity awards attributable to services rendered pre-combination. As the transaction closed prior to the opening of markets on the Xilinx Acquisition Date, the fair value of the common stock issued to Xilinx stockholders was based on the closing price of the Company's common stock on February 11, 2022 of \$113.18 per share.

The financial results of Xilinx are included in the Company's consolidated financial statements from the Xilinx Acquisition Date to December 30, 2023 and are reported under the Embedded and Data Center segments.

The purchase consideration was allocated as follows:

	(In millions)
Cash and cash equivalents	\$ 2,366
Short-term investments	1,582
Accounts receivable	299
Inventories	539
Prepaid expenses and other current assets	61
Property and equipment	692
Operating lease right-of-use assets	61
Acquisition-related intangibles	27,308
Deferred tax assets	15
Other non-current assets	418
<b>Total Assets</b>	<b>33,341</b>
Accounts payable	116
Accrued liabilities	634
Other current liabilities	185
Long-term debt	1,474
Long-term operating lease liabilities	45
Deferred tax liabilities	4,346
Other long-term liabilities	532
<b>Total Liabilities</b>	<b>7,332</b>
Fair value of net assets acquired	26,009
Goodwill	22,784
<b>Total purchase consideration</b>	<b>\$ 48,793</b>

The Company allocated the purchase price to tangible and identified intangible assets acquired and liabilities assumed based on the estimates of their fair values, which were determined using generally accepted valuation techniques based on estimates and assumptions made by management. Goodwill arising from the acquisition of Xilinx was assigned to the Embedded and Data Center segments. Goodwill was primarily attributed to increased synergies expected to be achieved from the integration of Xilinx. Goodwill is not expected to be deductible for income tax purposes.

Following are details of the purchase consideration allocated to acquired intangible assets:

	Fair Value (In millions)	Weighted-average estimated useful life (In years)
Developed technology <sup>(1)</sup>	\$ 12,295	16 years
Customer relationships <sup>(2)</sup>	12,290	14 years
Customer backlog <sup>(3)</sup>	793	1 year
Corporate trade name <sup>(4)</sup>	65	1 year
Product trademarks <sup>(4)</sup>	895	12 years
Identified intangible assets subject to amortization	<u>26,338</u>	
In-process research and development (IPR&D) not subject to amortization <sup>(5)</sup>	970	N/A
<b>Total identified intangible assets acquired</b>	<b><u>\$ 27,308</u></b>	

1. The fair value of developed technology was determined using the income approach, specifically, the multi-period excess earnings method.
2. Customer relationships represent the fair value of existing contractual relationships and customer loyalty determined based on existing relationships using the income approach, specifically the with and without method.
3. Customer backlog represents the fair value of non-cancellable customer contract orders using the income approach, specifically the multi-period excess earnings method.
4. Corporate trade name and product trademarks primarily relate to the Xilinx brand and product-related trademarks, respectively, and the fair values were determined by applying the income approach, specifically the relief from royalty method.
5. The fair value of IPR&D was determined using the income approach, specifically the multi-period excess earnings method.

The fair value of the identified intangible assets subject to amortization are amortized over the assets' estimated useful lives based on the pattern in which the economic benefits are expected to be received to cost of sales and operating expenses.

IPR&D consists of projects that have not yet reached technological feasibility as of the acquisition date. Accordingly, the Company recorded an indefinite-lived intangible asset of \$970 million for the fair value of these projects, which were initially not amortized. In the fourth quarter of 2023, these IPR&D assets reached technological feasibility and were reclassified as developed technology, and began amortization over their estimated useful lives of 15 years.

The Company also assumed unvested restricted stock units with estimated fair value of \$1.2 billion, of which \$275 million was included as a component of the purchase consideration and \$951 million will be recognized as expense subsequent to the acquisition.

The Consolidated Statements of Operations include the following revenue and operating income attributable to Xilinx in 2022:

	2022 (In millions)	
Net revenue	\$	4,612
Operating income	\$	2,247

Operating income attributable to Xilinx recorded under the Embedded and Data Center segments does not include \$4.2 billion of amortization of acquisition-related intangibles, employee stock-based compensation expense and acquisition-related costs, which are recorded under the "All Other" segment.

In 2023 and 2022, Xilinx acquisition-related costs of \$26 million and \$350 million were recorded under Cost of sales, Research and development, and Marketing, general and administrative expenses on the Company's Consolidated Statements of Operations. Acquisition-related costs are primarily comprised of direct transaction costs, fair value adjustments for acquired inventory and certain compensation charges.

### Supplemental Unaudited Pro Forma Information

Following are the supplemental consolidated financial results of the Company, Xilinx and Pensando on an unaudited pro forma basis, as if the acquisitions had been consummated as of the beginning of the fiscal year 2021 (i.e., December 27, 2020).

	December 31, 2022	December 25, 2021
	(in millions)	
Net revenue	\$ 24,117	\$ 20,150
Net income	\$ 2,311	\$ 8

The Company's fiscal year ends on the last Saturday in December of each year, Xilinx's fiscal year ended on the Saturday nearest March 31 of each year and Pensando's fiscal year ended on January 31 of each year. The unaudited pro forma information above is presented on the basis of the Company's fiscal year and combines the historical results of the fiscal periods of the Company with the following historical results of Xilinx and Pensando: the twelve months ended December 31, 2022 includes Xilinx results for the twelve-month period beginning January 2, 2022 through December 31, 2022 and Pensando results for the twelve-month period beginning January 1, 2022 through December 31, 2022; and the twelve months ended December 25, 2021 includes Xilinx results for the twelve months ended January 1, 2022 and Pensando results for the twelve months ended December 31, 2021.

The unaudited pro forma financial information presented is for informational purposes only and is not necessarily indicative of the results of operations that would have been achieved if the Xilinx and Pensando acquisitions were completed at the beginning of fiscal year 2021 and are not indicative of the future operating results of the combined company. The pro forma results include adjustments related to purchase accounting, primarily amortization of acquisition-related intangible assets, fixed asset depreciation expense and expense from assumed stock-based compensation awards. The pro forma results also include amortization expense of acquired Xilinx inventory fair value step-up of \$184 million in fiscal year 2021 and no Xilinx inventory fair value step-up expense in fiscal year 2022.

### NOTE 6 – Acquisition-related Intangible Assets and Goodwill

#### Acquisition-related Intangible Assets

Acquisition-related intangibles as of December 30, 2023 and December 31, 2022 were as follows:

	December 30, 2023			December 31, 2022		
	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount
	(In millions)			(In millions)		
Developed technology	\$ 13,390	\$ (1,583)	\$ 11,807	\$ 12,360	\$ (738)	\$ 11,622
Customer relationships	12,324	(3,755)	8,569	12,324	(1,973)	10,351
Customer backlog	809	(809)	—	809	(712)	97
Corporate trade name	65	(65)	—	65	(57)	8
Product trademarks	914	(147)	767	914	(68)	846
Identified intangible assets subject to amortization	27,502	(6,359)	21,143	26,472	(3,548)	22,924
IPR&D not subject to amortization	220	—	220	1,194	—	1,194
Total acquisition-related intangible assets	<u>\$ 27,722</u>	<u>\$ (6,359)</u>	<u>\$ 21,363</u>	<u>\$ 27,666</u>	<u>\$ (3,548)</u>	<u>\$ 24,118</u>

Acquisition-related intangible amortization expense was \$2.8 billion and \$3.5 billion in fiscal year 2023 and 2022, respectively. In the fourth quarter of 2023, \$970 million of IPR&D intangible assets acquired from Xilinx reached technological feasibility and were reclassified as developed technology, and began amortization over their estimated useful lives.

Based on the carrying value of acquisition-related intangibles recorded as of December 30, 2023, and assuming no subsequent impairment of the underlying assets, the estimated annual amortization expense for acquisition-related intangibles is expected to be as follows:

Fiscal Year	(In millions)	
2024	\$	2,371
2025		2,145
2026		2,034
2027		1,922
2028		1,846
2029 and thereafter		10,825
<b>Total</b>	<b>\$</b>	<b>21,143</b>

### Goodwill

The carrying amount of goodwill as of December 30, 2023 and December 31, 2022 was \$24.3 billion and \$24.2 billion, respectively, and was assigned to reporting units within the following reportable segments:

	December 25, 2021	Acquisitions	Adjustments and Reassignment due to segment change*	December 31, 2022	Acquisitions	December 30, 2023
	(In millions)			(In millions)		
Reportable segments before segment change:						
Enterprise, Embedded and Semi-Custom	\$ 289	\$ —	\$ (289)	\$ —	\$ —	\$ —
Xilinx	—	22,794	(22,794)	—	—	—
Reportable segments after segment change:						
Data Center	—	1,094	1,790	2,884	58	2,942
Client	—	—	—	—	18	18
Gaming	—	—	238	238	—	238
Embedded	—	—	21,055	21,055	9	21,064
<b>Total</b>	<b>\$ 289</b>	<b>\$ 23,888</b>	<b>\$ —</b>	<b>\$ 24,177</b>	<b>\$ 85</b>	<b>\$ 24,262</b>

\*In the second quarter of fiscal year 2022, the Company reassigned goodwill balances among the updated reportable segments to reflect changes in its segment reporting structure.

During the fourth quarter of fiscal years 2023 and 2022, the Company conducted its annual qualitative impairment tests of goodwill and concluded that there was no goodwill impairment with respect to its reporting units.

### NOTE 7 – Related Parties—Equity Joint Ventures

#### ATMP Joint Ventures

The Company holds a 15% equity interest in two joint ventures (collectively, the ATMP JV) with affiliates of Tongfu Microelectronics Co., Ltd, a Chinese joint stock company. The Company has no obligation to fund the ATMP JV. The Company accounts for its equity interests in the ATMP JV under the equity method of accounting due to its significant influence over the ATMP JV.

The ATMP JV provides assembly, test, mark and packaging (ATMP) services to the Company. The Company assists the ATMP JV in its management of certain raw material inventory. The purchases from and resales to the ATMP JV of inventory under the Company's inventory management program are reported within purchases and resales with the ATMP JV and do not impact the Company's consolidated statement of operations.



The Company's purchases from the ATMP JV during 2023 and 2022 both amounted to \$1.7 billion. As of December 30, 2023 and December 31, 2022, the amounts payable to the ATMP JV were \$363 million and \$463 million, respectively, and are included in Payables to related parties on the Company's consolidated balance sheets. The Company's resales to the ATMP JV during 2023 and 2022 amounted to \$14 million and \$15 million, respectively. As of December 30, 2023 and December 31, 2022, the Company had receivables from ATMP JV of \$9 million and \$2 million, respectively, included in Receivables from related parties on the Company's consolidated balance sheets.

During 2023, 2022 and 2021, the Company recorded gains of \$16 million, \$14 million and \$6 million in Equity income in investee on its consolidated statement of operations, respectively. As of December 30, 2023 and December 31, 2022, the carrying value of the Company's investment in the ATMP JV was approximately \$99 million and \$83 million, respectively.

#### **THATIC Joint Ventures**

The Company holds equity interests in two joint ventures (collectively, the THATIC JV) with Higon Information Technology Co., Ltd. (THATIC), a third-party Chinese entity. As of December 30, 2023 and December 31, 2022, the carrying value of the investment was zero.

In February 2016, the Company licensed certain of its intellectual property (Licensed IP) to the THATIC JV, payable over several years upon achievement of certain milestones. The Company also receives a royalty based on the sales of the THATIC JV's products developed on the basis of such Licensed IP. The Company classifies Licensed IP and royalty income associated with the February 2016 agreement as Licensing gain within operating income. During 2023 and 2022, the Company recognized \$34 million of licensing gain from royalty income and \$102 million of licensing gain from a milestone achievement and royalty income under the agreement, respectively. As of December 30, 2023 and December 31, 2022, the Company had no receivables from the THATIC JV.

In June 2019, the Bureau of Industry and Security of the United States Department of Commerce added certain Chinese entities to the Entity List, including THATIC and the THATIC JV. The Company is complying with U.S. law pertaining to the Entity List designation.

#### **NOTE 8 – Debt and Revolving Credit Facility**

##### **Debt**

The Company's total debt as of December 30, 2023 and December 31, 2022 consisted of:

	December 30, 2023	December 31, 2022
	(In millions)	
2.950% Senior Notes Due 2024 (2.950% Notes)	\$ 750	\$ 750
2.125% Convertible Senior Notes Due 2026 (2.125% Notes)	—	1
2.375% Senior Notes Due 2030 (2.375% Notes)	750	750
3.924% Senior Notes Due 2032 (3.924% Notes)	500	500
4.393% Senior Notes Due 2052 (4.393% Notes)	500	500
Total debt (principal amount)	2,500	2,501
Unamortized debt premium, discount and issuance costs, net	(32)	(34)
Total debt (net)	2,468	2,467
Less: current portion of long-term debt and related unamortized debt premium and issuance costs	751	—
Total long-term debt	\$ 1,717	\$ 2,467

##### **Assumed Xilinx Notes**

In connection with the acquisition of Xilinx, the Company assumed \$1.5 billion in aggregate principal of Xilinx's 2.950% Notes and 2.375% Notes (together, the *Assumed Xilinx Notes*) which were recorded at fair value as of the Xilinx Acquisition Date. The Assumed Xilinx Notes are general unsecured senior obligations of the Company with semi-annual fixed interest payments due on June 1 and December 1.

### 3.924% Senior Notes Due 2032 and 4.393% Senior Notes Due 2052

On June 9, 2022, the Company issued \$1.0 billion in aggregate principal amount of 3.924% Notes and 4.393% Notes. The 3.924% Notes and 4.393% Notes are general unsecured senior obligations of the Company. The interest is payable semi-annually on June 1 and December 1 of each year, commencing on December 1, 2022. The 3.924% and 4.393% Notes are governed by the terms of an indenture dated June 9, 2022 between the Company and US Bank Trust Company, National Association as trustee.

The Company may redeem some or all of the 3.924% Notes and 4.393% Notes prior to March 1, 2032 and December 1, 2051, respectively, at a price equal to the greater of the present value of the principal amount and future interest through the maturity of the 3.924% Notes or 4.393% Notes or 100% of the principal amount plus accrued and unpaid interest. Holders have the right to require the Company to repurchase all or a portion of the 3.924% Notes or 4.393% Notes in the event that the Company undergoes a change of control as defined in the indenture, at a repurchase price of 101% of the principal amount plus accrued and unpaid interest. Additionally, an event of default may result in the acceleration of the maturity of the 3.924% Notes and 4.393% Notes.

### Future Payments on Total Debt

As of December 30, 2023, the Company's future debt payment obligations were as follows:

Year	Term Debt (Principal only) (In millions)
2024	\$ 750
2025 - 2028	—
2029 and thereafter	1,750
Total	\$ 2,500

### Revolving Credit Facility

The Company has \$3.0 billion available under a revolving credit agreement, as amended, that expires on April 29, 2027 (Revolving Credit Agreement). As of December 30, 2023 and December 31, 2022, the Company had no outstanding borrowings under the Revolving Credit Agreement. Revolving loans under the Revolving Credit Agreement can be either Secure Overnight Financing Rate (SOFR) Loans or Base Rate Loans (each as defined in the Revolving Credit Agreement) at the Company's option. Each SOFR Loan will bear interest at a rate per annum equal to the applicable SOFR plus a margin between 0.575% and 1.20%. Each Base Rate Loan will bear interest equal to the Base Rate plus a margin between 0.000% and 0.20%. The Revolving Credit Agreement also contains a sustainability-linked pricing component which provides for interest rate and facility fee reductions or increases based on the Company meeting or missing targets related to environmental sustainability, specifically greenhouse gas emissions. The Revolving Credit Agreement contains customary representations and warranties, affirmative and negative covenants, and events of default applicable to the Company and its subsidiaries. As of December 30, 2023, the Company was in compliance with these covenants.

### Commercial Paper

On November 3, 2022, the Company established a commercial paper program, under which the Company may issue unsecured commercial paper notes up to a maximum principal amount outstanding at any time of \$3 billion with a maturity of up to 397 days from the date of issue. The commercial paper will be sold at a discount from par or, alternatively, will be sold at par and bear interest at rates that will vary based on market conditions at the time of issuance. During 2023 and 2022, the Company did not issue any commercial paper under the program and as of December 30, 2023, the Company had no commercial paper outstanding.

**NOTE 9 – Financial Instruments**
*Financial Instruments Recorded at Fair Value on a Recurring Basis*

(In millions)	December 30, 2023			December 31, 2022		
	Level 1	Level 2	Total	Level 1	Level 2	Total
<b>Cash equivalents</b>						
Money market funds	\$ 969	\$ —	\$ 969	\$ 3,017	\$ —	\$ 3,017
Corporate debt securities	—	753	753	—	224	224
U.S. government and agency securities	1,252	—	1,252	—	—	—
Non-U.S. government and agency securities	—	135	135	—	—	—
Time deposits and certificates of deposits	—	205	205	—	158	158
<b>Short-term investments</b>						
Corporate debt securities	—	506	506	—	441	441
Time deposits and certificates of deposits	—	9	9	—	—	—
Asset-backed and mortgage-backed securities	—	34	34	—	39	39
U.S. government and agency securities	1,209	28	1,237	466	—	466
Non-U.S. government and agency securities	—	54	54	—	74	74
<b>Other non-current assets</b>						
Time deposits and certificates of deposits	—	1	1	—	9	9
Equity investments	—	—	—	8	—	8
Deferred compensation plan investments	133	—	133	90	—	90
<b>Total assets measured at fair value</b>	<b>\$ 3,563</b>	<b>\$ 1,725</b>	<b>\$ 5,288</b>	<b>\$ 3,581</b>	<b>\$ 945</b>	<b>\$ 4,526</b>

The Company did not have any financial instruments measured at fair value on a recurring basis within Level 3 fair value measurements as of December 30, 2023 or December 31, 2022.

Deferred compensation plan investments are primarily mutual fund investments held in a Rabbi trust established to maintain the Company's executive deferred compensation plan.

The following is a summary of cash equivalents and short-term investments:

	December 30, 2023				December 31, 2022			
	Cost/ Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value	Cost/ Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
	(in millions)				(in millions)			
Asset-backed and mortgage-backed securities	\$ 35	\$ —	\$ (2)	\$ 33	\$ 42	\$ —	\$ (3)	\$ 39
Corporate debt securities	1,259	—	—	1,259	669	—	(4)	665
Money market funds	969	—	—	969	3,017	—	—	3,017
Time deposits and certificates of deposits	214	—	—	214	159	—	—	159
U.S. government and agency securities	2,487	3	—	2,490	471	—	(5)	466
Non-U.S. government and agency securities	189	—	—	189	74	—	—	74
	<u>\$ 5,153</u>	<u>\$ 3</u>	<u>\$ (2)</u>	<u>\$ 5,154</u>	<u>\$ 4,432</u>	<u>\$ —</u>	<u>\$ (12)</u>	<u>\$ 4,420</u>

As of December 30, 2023 and December 31, 2022, the Company did not have material available-for-sale debt securities which had been in a continuous unrealized loss position of more than twelve months.

The contractual maturities of investments classified as available-for-sale are as follows:

	December 30, 2023		December 31, 2022	
	Amortized Cost	Fair Value	Amortized Cost	Fair Value
	(In millions)		(In millions)	
Due within 1 year	\$ 3,792	\$ 3,792	\$ 1,224	\$ 1,218
Due in 1 year through 5 years	361	364	159	156
Due in 5 years and later	32	30	41	38
	<u>\$ 4,185</u>	<u>\$ 4,186</u>	<u>\$ 1,424</u>	<u>\$ 1,412</u>

#### *Financial Instruments Measured at Fair Value on a Non-Recurring Basis*

As of December 30, 2023 and December 31, 2022, the Company had non-marketable securities in privately-held companies of \$155 million and \$137 million, respectively.

#### *Financial Instruments Not Recorded at Fair Value*

The carrying amounts and estimated fair values of the Company's long-term debt are as follows:

	December 30, 2023		December 31, 2022	
	Carrying Amount	Estimated Fair Value	Carrying Amount	Estimated Fair Value
	(In millions)		(In millions)	
Current portion of long-term debt, net	\$ 751	\$ 741	\$ —	\$ —
Long-term debt, net of current portion	\$ 1,717	\$ 1,630	\$ 2,467	\$ 2,281

The estimated fair value of the Company's long-term debt is based on Level 2 inputs of quoted prices for the Company's debt and comparable instruments in inactive markets.

The fair value of the Company's accounts receivable, accounts payable and other short-term obligations approximate their carrying value based on existing terms.

### **Hedging Transactions and Derivative Financial Instruments**

#### *Foreign Currency Forward Contracts Designated as Accounting Hedges*

The Company enters into foreign currency forward contracts to hedge its exposure to foreign currency exchange rate risk related to future forecasted transactions denominated in currencies other than the U.S. Dollar. These contracts generally mature within 24 months and are designated as accounting hedges. As of December 30, 2023 and December 31, 2022, the notional value of the Company's outstanding foreign currency forward contracts designated as cash flow hedges was \$2.4 billion and \$1.9 billion, respectively. The fair value of these contracts was recorded as an asset of \$6 million as of December 30, 2023 and as a liability of \$27 million as of December 31, 2022.

#### *Foreign Currency Forward Contracts Not Designated as Accounting Hedges*

The Company also enters into foreign currency forward contracts to reduce the short-term effects of foreign currency fluctuations on certain receivables or payables denominated in currencies other than the U.S. Dollar. These forward contracts generally mature within 3 months and are not designated as accounting hedges. As of December 30, 2023 and December 31, 2022, the notional value of these outstanding contracts was \$568 million and \$485 million, respectively. The fair value of these contracts was not material as of December 30, 2023 and December 31, 2022.

The cash flows associated with derivative instruments as cash flow hedging instruments are classified in the same category in the Consolidated Statement of Cash Flows as the cash flows of the related items.

**NOTE 10 – Concentrations of Credit Risk**

Financial instruments that potentially subject the Company to concentrations of credit risk consist primarily of investments in time deposits, available-for-sale debt securities, equity investments and trade receivables.

The Company places its investments with high credit quality financial institutions. At the time an investment is made, investments in commercial paper of industrial firms and financial institutions are rated A1, P1, F1 or better. The Company invests in bonds that are rated A, A2 or better and repurchase agreements, each of which have securities of the type and quality listed above as collateral.

The Company believes that concentrations of credit risk with respect to trade receivables are limited because a large number of geographically diverse customers make up the Company's customer base, thus diluting the trade credit risk. One customer accounted for approximately 13% and 18% of the total consolidated accounts receivable balance as of December 30, 2023 and December 31, 2022, respectively. However, the Company does not believe the receivable balance from this customer represents a significant credit risk based on past collection experience and review of their current credit quality.

The Company is exposed to credit losses from nonperformance by counterparties on foreign currency hedge contracts. These counterparties are large global institutions, and to date, no such counterparty has failed to meet its financial obligations to the Company.

**NOTE 11 – Earnings Per Share**

Basic earnings per share is computed based on the weighted-average number of shares outstanding.

Diluted earnings per share is computed based on the weighted-average number of shares outstanding plus potentially dilutive shares outstanding during the period. Potentially dilutive shares are determined by applying the treasury stock method to the Company's stock options, RSUs (including PRSUs), common stock to be issued under the ESPP and warrants.

The following table sets forth the components of basic and diluted earnings per share:

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions, except per share amounts)		
<b>Numerator</b>			
Net income for basic earnings per share	\$ 854	\$ 1,320	\$ 3,162
<b>Denominator</b>			
Basic weighted-average shares	1,614	1,561	1,213
Effect of potentially dilutive shares from employee equity plans and warrants	11	10	16
Diluted weighted-average shares	<u>1,625</u>	<u>1,571</u>	<u>1,229</u>
<b>Earnings per share:</b>			
Basic	\$ 0.53	\$ 0.85	\$ 2.61
Diluted	\$ 0.53	\$ 0.84	\$ 2.57

Potential shares from employee equity plans totaling 6 million, 16 million and 2 million weighted-average shares for 2023, 2022 and 2021, respectively, were not included in the earnings per share calculation because their inclusion would have been anti-dilutive.

**NOTE 12 – Common Stock and Stock-Based Compensation**
**Common Stock**

Shares of common stock outstanding were as follows:

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions)		
Balance, beginning of period	1,612	1,207	1,211
Common stock issued in the acquisition of Xilinx	—	429	—
Common stock issued under employee equity plans	17	17	12
Repurchases of common stock	(10)	(36)	(17)
Common stock repurchases for tax withholding on equity awards	(4)	(5)	(2)
Issuance of common stock upon warrant exercise	1	—	—
Issuance of common stock to settle convertible debt	—	—	3
Balance, end of period	1,616	1,612	1,207

**Stock Repurchase Program**

The Company has an approved stock repurchase program authorizing repurchases of up to \$12 billion of the Company's common stock (Repurchase Program). During the year ended December 30, 2023, the Company repurchased 9.7 million shares of its common stock under the Repurchase Program for \$985 million. As of December 30, 2023, \$5.6 billion remained available for future stock repurchases under this program. This Repurchase Program does not obligate the Company to acquire any common stock, has no termination date and may be suspended or discontinued at any time.

**Stock-Based Compensation**

The Company's employee equity programs are intended to attract, retain and motivate highly qualified employees. On May 18, 2023, the Company's stockholders approved the AMD 2023 Equity Incentive Plan (the 2023 Plan), which supersedes the AMD 2004 Equity Incentive Plan and the Xilinx, Inc. 2007 Equity Incentive Plan (the Prior Plans). Outstanding awards granted under the Prior Plans will continue to be governed by the terms of the Prior Plans but no awards may be made under the Prior Plans on or after May 18, 2023. Under the 2023 Plan, 87,645,874 shares of the Company's common stock are reserved and available for delivery pursuant to awards granted under the 2023 Plan. Generally, stock options granted under the 2023 Plan vest and become exercisable over a four-year period from the date of grant and expire within seven years after the grant date. Unvested shares from the 2023 Plan that are reacquired by the Company from forfeited outstanding equity awards become available for grant and may be reissued as new awards. Under the 2023 Plan, the Company can grant (i) stock options, and (ii) RSUs, including time-based RSUs and PRSUs.

**Stock Options.** Under the 2023 Plan, nonstatutory and incentive stock options may be granted. The exercise price of the shares subject to each nonstatutory stock option and incentive stock option cannot be less than 100% of the fair market value of the Company's common stock on the date of the grant. The exercise price of each option granted under the 2023 Plan must be paid in full at the time of the exercise.

**Time-based RSUs.** Time-based RSUs are awards that can be granted to any employee, director or consultant and that obligate the Company to issue a specific number of shares of the Company's common stock in the future if the vesting terms and conditions are satisfied.

**PRSUs.** PRSUs can be granted to certain of the Company's senior executives. The performance metrics can be financial performance, non-financial performance and/or market conditions. Each PRSU award reflects a target number of shares (Target Shares) that may be issued to an award recipient before adjusting based on the Company's financial performance, non-financial performance and/or market conditions. The actual number of shares that a grant recipient receives at the end of the period may range from 0% to 250% of the Target Shares granted, depending upon the degree of achievement of the performance target designated by each individual award.

*ESPP.* Under the 2017 Plan, eligible employees who participate in an offering period may have up to 15% of their eligible earnings withheld, up to certain limitations, to purchase shares of common stock at 85% of the lower of the fair market value on the first or the last business day of the six-month offering period. The offering periods commence in May and November each year.

As of December 30, 2023, the Company had 74 million shares of common stock that were available for future grants and 37 million shares reserved for issuance upon the exercise of outstanding stock options or the vesting of unvested RSUs, including PRSUs, under the 2023 Plan and the Prior Plans.

#### Valuation and Expense

Stock-based compensation expense was allocated in the consolidated statements of operations as follows:

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions)		
Cost of sales	\$ 30	\$ 29	\$ 5
Research and development	1,002	697	246
Marketing, general, and administrative	352	355	128
Total stock-based compensation expense before income taxes	1,384	1,081	379
Income tax benefit	(249)	(179)	(58)
Total stock-based compensation expense, net of income taxes	<u>\$ 1,135</u>	<u>\$ 902</u>	<u>\$ 321</u>

*Stock Options.* The weighted-average estimated fair value of employee stock options granted during 2023, 2022 and 2021 was \$53.72, \$44.35 and \$46.07 per share, respectively, using the following assumptions:

	December 30, 2023	December 31, 2022	December 25, 2021
Expected volatility	52.36% - 52.42%	51.28 %	51.77 %
Risk-free interest rate	3.93% - 4.11%	3.00 %	0.69 %
Expected dividends	— %	— %	— %
Expected life (in years)	4.96 - 5.04	4.75	4.55

The Company uses a combination of the historical volatility of its common stock and the implied volatility for publicly traded options on the Company's common stock as the expected volatility assumption. The risk-free interest rate is based on the rate for a U.S. Treasury zero-coupon yield curve with a term that approximates the expected life of the option grant at the date closest to the option grant date. The expected dividend yield is zero as the Company does not expect to pay dividends in the near future. The expected term of employee stock options represents the weighted-average period the stock options are expected to remain outstanding.

The following table summarizes stock option activity and related information:

	Outstanding Number of Shares	Weighted-Average Exercise Price	Aggregate Intrinsic Value	Weighted-Average Remaining Contractual Life (in years)
	(In millions, except share price)			
Balance as of December 31, 2022	4	\$ 42.35		
Granted	1	\$ 108.19		
Canceled	—	\$ 98.54		
Exercised	(2)	\$ 18.22		
Balance as of December 30, 2023	<u>3</u>	<u>\$ 68.33</u>	\$ 205	3.87
Exercisable December 30, 2023	2	\$ 49.54	\$ 164	2.73

The total intrinsic value of stock options exercised for 2023, 2022 and 2021 was \$173 million, \$139 million and \$277 million, respectively. As of December 30, 2023, the Company had \$38 million of total unrecognized compensation expense related to stock options, which will be recognized over the weighted-average period of 2.87 years.

*Time-based RSUs.* The weighted-average grant date fair values of time-based RSUs granted during 2023, 2022 and 2021 were \$106.28, \$92.92 and \$78.59 per share, respectively.

The following table summarizes time-based RSU activity and related information:

	Number of Shares (In millions)	Weighted- Average Grant Date Fair Value
Unvested shares as of December 31, 2022	28	\$ 95.49
Granted	16	\$ 106.28
Forfeited	(2)	\$ 99.48
Vested	(10)	\$ 99.83
Unvested shares as of December 30, 2023	<u>32</u>	<u>\$ 100.65</u>

The total fair value of time-based RSUs vested during 2023, 2022 and 2021 was \$1.1 billion, \$889 million and \$678 million, respectively. As of December 30, 2023, the Company had \$2.3 billion of total unrecognized compensation expense related to time-based RSUs, which will be recognized over the weighted-average period of 2.59 years.

*PRsUs.* The weighted-average grant date fair values of PRsUs granted during 2023, 2022 and 2021 were \$134.87, \$121.12 and \$153.89, respectively, using the following assumptions:

	December 30, 2023	December 31, 2022	December 25, 2021
Expected volatility	51.12% - 56.22%	50.65% - 53.51%	57.75 %
Risk-free interest rate	4.30% - 4.36%	1.14% - 3.17%	0.43 %
Expected dividends	— %	— %	— %
Expected term (in years)	2.17 - 3.00	2.07 - 3.07	3.00

The Company uses the historical volatility of its common stock and risk-free interest rate based on the rate for a U.S. Treasury zero-coupon yield curve with a term that approximates the expected life of the PRsUs grant at the date closest to the grant date. The expected dividend yield is zero as the Company does not expect to pay dividends in the near future. The expected term of PRsUs represents the requisite service periods of these PRsUs.

The following table summarizes PRsU activity and related information:

	Number of Shares (In millions)	Weighted-Average Grant Date Fair Value
Unvested shares as of December 31, 2022	2	\$ 110.31
Granted	1	\$ 134.87
Forfeited	—	\$ 134.53
Vested	(1)	\$ 129.78
Unvested shares as of December 30, 2023	<u>2</u>	<u>\$ 117.65</u>

The total fair value of PRsUs vested during 2023, 2022 and 2021 was \$100 million, \$254 million and \$98 million, respectively. As of December 30, 2023, the Company had \$162 million of total unrecognized compensation expense related to PRsUs, which will be recognized over the weighted-average period of 1.64 years.



ESPP. The weighted-average grant date fair value for the ESPP during 2023, 2022 and 2021 was \$31.11, \$24.71 and \$27.27 per share, respectively, using the following assumptions:

	December 30, 2023	December 31, 2022	December 25, 2021
Expected volatility	45.74% - 49.40%	58.15% - 63.76%	36.90% - 39.39%
Risk-free interest rate	5.13% - 5.46%	1.43% - 4.52%	0.04% - 0.07%
Expected dividends	— %	— %	— %
Expected term (in years)	0.50	0.50	0.50

The Company uses the historical volatility of its common stock and the risk-free interest rate based on the rate for a U.S. Treasury zero-coupon yield curve with a term that approximates the expected life of the ESPP grant at the date closest to the ESPP grant date. The expected dividend yield is zero as the Company does not expect to pay dividends in the near future. The expected term of the ESPP represents the six-month offering period.

During 2023, 4 million shares of common stock were purchased under the ESPP at a purchase price of \$67.13 resulting in aggregate cash proceeds of \$240 million. As of December 30, 2023, the Company had \$36 million of total unrecognized compensation expense related to the ESPP, which will be recognized over the weighted-average period of 0.36 years.

#### ***Xilinx Replacement Awards***

In connection with the acquisition of Xilinx, the Company issued equity awards as replacement for assumed equity awards to Xilinx employees. The replacement awards include restricted stock units of approximately 12 million shares with a weighted average fair value of \$103.35 per share and have terms that are substantially the same as the assumed Xilinx awards. The fair value of replacement awards related to services rendered up to the Xilinx Acquisition Date was recognized as a component of the total purchase consideration while the remaining fair value of replacement awards attributable to post-combination services is being recognized as stock-based compensation expense over the remaining post-acquisition vesting period.

#### **NOTE 13 – Retirement Benefit Plans**

The Company provides retirement benefit plans in the United States and certain foreign countries. The Company has a 401(k) retirement plan that allows participating employees in the United States to contribute as defined by the plan and subject to Internal Revenue Service limitations. The Company matches 75% of employees' contributions up to 6% of their eligible compensation. The Company's contributions to the 401(k) plan for 2023, 2022 and 2021 were approximately \$70 million, \$47 million and \$35 million, respectively.

#### **NOTE 14 – Income Taxes**

Income before income taxes consists of the following:

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions)		
U.S.	\$ 454	\$ 2,093	\$ 3,528
Non-U.S.	54	(895)	147
Total pre-tax income including equity income in investee	\$ 508	\$ 1,198	\$ 3,675

The income tax provision (benefit) consists of:

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions)		
<b>Current:</b>			
U.S. federal	\$ 496	\$ 1,191	\$ 112
U.S. state and local	27	31	11
Non-U.S.	150	161	82
<b>Total</b>	<b>673</b>	<b>1,383</b>	<b>205</b>
<b>Deferred:</b>			
U.S. federal	(860)	(1,365)	320
U.S. state and local	(29)	(26)	(7)
Non-U.S.	(130)	(114)	(5)
<b>Total</b>	<b>(1,019)</b>	<b>(1,505)</b>	<b>308</b>
<b>Income tax provision (benefit)</b>	<b>\$ (346)</b>	<b>\$ (122)</b>	<b>\$ 513</b>

The table below displays the reconciliation between statutory federal income taxes and the total income tax provision (benefit).

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions)		
Statutory federal income tax expense at 21%	\$ 107	\$ 252	\$ 772
GILTI and other foreign inclusion	(138)	(96)	—
Foreign-Derived Intangible Income (FDII) deduction	(185)	(261)	(147)
Research credits	(169)	(241)	(78)
Interest and penalty	53	33	35
Foreign rate detriment (benefit)	(11)	195	71
Stock-based and non-deductible compensation	1	10	(125)
Other	(4)	(14)	(15)
<b>Income tax provision (benefit)</b>	<b>\$ (346)</b>	<b>\$ (122)</b>	<b>\$ 513</b>

The Company recorded an income tax benefit of \$346 million and \$122 million in 2023 and 2022, respectively, representing effective tax rates of (68%) and (10%), respectively. The increase in income tax benefit in 2023 was primarily due to the lower pre-tax income coupled with a \$185 million FDII tax benefit and \$169 million of research and development (R&D) tax credits.

Beginning in 2022, provisions in the U.S. Tax Cuts and Jobs Act of 2017 require the Company to capitalize and amortize R&D expenditures rather than deducting the costs as incurred. The capitalization resulted in an increase in 2023 and 2022 taxable income which also increased the income eligible for the FDII tax benefit.

As a part of the Xilinx acquisition and as a result of certain employment and operational commitments the Company has made in Singapore, the Company has been granted a Development and Expansion Incentive (DEI) that is effective through 2031. The DEI reduces the local tax on Singapore income from a statutory rate of 17% to 5% through 2031. Due to the current year pre-tax loss in Singapore, the Company did not receive any income tax or earnings per share benefit.

Deferred income taxes reflect the net tax effects of tax carryovers and temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the balances for income tax purposes. Significant components of the Company's deferred tax assets and liabilities as of December 30, 2023 and December 31, 2022 were as follows:

	December 30, 2023	December 31, 2022
(In millions)		
<b>Deferred tax assets:</b>		
Net operating loss carryovers	\$ 992	\$ 1,031
Accruals and reserves not currently deductible	574	835
Employee benefits not currently deductible	302	214
Federal and state tax credit carryovers	660	631
Foreign R&D and investment tax credits	597	578
Foreign tax credits	71	46
Lease liability	181	161
Capitalized R&D	1,753	943
Other	96	104
<b>Total deferred tax assets</b>	<b>5,226</b>	<b>4,543</b>
Less: valuation allowance	(2,124)	(2,078)
<b>Total deferred tax assets, net of valuation allowance</b>	<b>3,102</b>	<b>2,465</b>
<b>Deferred tax liabilities:</b>		
Acquired intangibles	(3,104)	(3,430)
Right-of-use assets	(175)	(151)
GILTI	(524)	(633)
Other	(135)	(127)
<b>Total deferred tax liabilities</b>	<b>(3,938)</b>	<b>(4,341)</b>
<b>Net deferred tax assets (liabilities)</b>	<b>\$ (836)</b>	<b>\$ (1,876)</b>

As a result of the R&D capitalization tax law that became effective in 2022, the capitalization of R&D expense amounts resulted in increased taxable income in 2023 and 2022. The capitalized R&D will be amortized and become deductible in future periods. Therefore, the Company has recorded a deferred tax asset for the capitalized R&D expenditures.

As a result of the acquisition of Xilinx in 2022, the Company recorded \$4.3 billion of net deferred tax liabilities primarily on the excess of book basis over the tax basis of the acquired intangible assets, including \$857 million of GILTI net deferred tax liability.

The movement in the deferred tax valuation allowance was as follows:

	December 30, 2023	December 31, 2022	December 25, 2021
(In millions)			
Balance at beginning of year	\$ 2,078	\$ 1,735	\$ 1,576
Charges to income tax expense and other accounts	41	112	3
Acquisition-related	5	231	—
Net recoveries <sup>+</sup>	—	—	156
<b>Balance at end of year</b>	<b>\$ 2,124</b>	<b>\$ 2,078</b>	<b>\$ 1,735</b>

+ The net recoveries in 2021 were primarily related to net originating deferred tax assets and newly generated tax credits.

Through the end of fiscal year 2023, the Company continued to maintain a valuation allowance of approximately \$2.1 billion for certain federal, state, and foreign tax attributes. The federal valuation allowance maintained is due to limitations under Internal Revenue Code Section 382 or 383, separate return loss year rules, or dual consolidated loss rules. Certain state and foreign valuation allowance maintained is due to lack of sufficient sources of future taxable income.

The Company's U.S. federal and state net operating losses (NOLs) carryforwards as of December 30, 2023, were \$295 million and \$343 million, respectively. NOLs may be subject to limitations by the Internal Revenue Code and similar provisions. \$46 million of U.S. federal NOLs will expire between 2024 and 2037, and \$249 million of federal NOLs have no expiration date. State NOLs will expire at various dates through 2042. The difference between the amount of federal NOLs which are recorded on the Company's balance sheet as deferred tax assets and their related valuation allowance, and the amounts reported on the Company's tax returns are the result of uncertain tax positions the Company has taken during the current year and for which an income tax reserve has been recorded. The federal tax credits of \$12 million will expire at various dates between 2037 and 2042. The state tax return credits of \$757 million will expire at various dates between 2024 and 2039, except for the California R&D credit, which does not expire. The Company also has \$624 million of credit carryforward in Canada that will expire between 2027 and 2042.

In 2022, the Company also recorded \$142 million of current tax payable as of the Xilinx acquisition date. Additionally, the Company assumed \$203 million of long-term liabilities for uncertain tax positions, including \$12 million of interest, as well as \$321 million of long-term liabilities for transition tax payable over three years. Included in the assumed liabilities for uncertain tax positions is a tax position with respect to whether stock-based compensation from Xilinx's cost sharing arrangement should be shared among cost share participants. The Company has concluded that the law was unsettled and believes the current uncertain tax position liability is sufficient and will continue to monitor developments in relevant tax court cases.

A reconciliation of the Company's gross unrecognized tax benefits was as follows:

	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions)		
Balance at beginning of year	\$ 1,361	\$ 275	\$ 119
Increases for tax positions taken in the current year	53	748	156
Increases for tax positions taken in prior years	57	104	14
Decreases for tax positions taken in prior years	(8)	(12)	(9)
Increases to tax positions taken in prior years through acquisitions	—	252	—
Decreases for settlements with taxing authorities and statute of limitation lapses	—	(6)	(5)
Balance at end of year	<u>\$ 1,463</u>	<u>\$ 1,361</u>	<u>\$ 275</u>

The amount of unrecognized tax benefits that would impact the effective tax rate if recognized was \$1.3 billion, \$1.2 billion and \$215 million as of December 30, 2023, December 31, 2022 and December 25, 2021, respectively. The Company had \$142 million, \$81 million and \$35 million of accrued penalties and interest related to unrecognized tax benefits as of December 30, 2023, December 31, 2022 and December 25, 2021, respectively. As of December 30, 2023 and December 31, 2022, the Company had long-term income tax liabilities related to unrecognized tax benefits of \$1.4 billion and \$1.3 billion, respectively, recorded under Other long-term liabilities in the Consolidated Balance Sheets.

The Company is subject to taxation in the U.S. and foreign jurisdictions. Earnings from non-U.S. activities are subject to local country income tax. The material jurisdiction in which the Company is subject to potential examination by the taxing authority is the United States, where tax years from 2008 are open for audit. Pre-acquisition Xilinx U.S. tax returns for fiscal years 2018 and 2019 are currently under audit by the IRS. It is possible the Company may have tax audits close in the next 12 months that could materially change the balance of the uncertain tax benefits; however, the timing of tax audit closures and settlements are highly uncertain.

Under current U.S. tax law, the impact of future distributions of undistributed earnings that are indefinitely reinvested are anticipated to be subject to withholding taxes from local jurisdictions and non-conforming U.S. state jurisdictions. There were no cumulative undistributed earnings that are indefinitely reinvested that could be subject to withholding taxes as of December 30, 2023.

**NOTE 15 – Other Income (Expense), Net**

The following table summarizes the components of Other income (expense), net:

	Year Ended		
	December 30, 2023	December 31, 2022	December 25, 2021
	(In millions)		
Interest income	\$ 206	\$ 65	\$ 8
Loss on debt redemption, repurchase and conversion	—	—	(7)
Gains (losses) on equity investments, net	(1)	(62)	56
Other income (expense)	(8)	5	(2)
Other income (expense), net	<u>\$ 197</u>	<u>\$ 8</u>	<u>\$ 55</u>

**NOTE 16 – Commitments and Guarantees**
**Operating Leases**

The Company has entered into operating and finance leases for its corporate offices, data centers, research and development facilities and certain equipment. The leases expire at various dates through 2038, some of which include options to extend the lease for up to ten years.

For 2023, 2022 and 2021, the Company recorded \$127 million, \$118 million and \$71 million, respectively, of operating lease expense, including short-term lease expense. For 2023 and 2022, the Company recorded \$46 million and \$40 million, respectively, of variable lease expense, which primarily included operating expenses and property taxes associated with the usage of facilities under the operating leases. For 2023 and 2022, cash paid for operating leases included in operating cash flows was \$147 million and \$108 million, respectively. The Company's finance and short-term leases are immaterial to the Company's consolidated financial statements.

Supplemental information related to leases is as follows:

	December 30, 2023
Weighted-average remaining lease term in years – operating leases	8.08
Weighted-average discount rate – operating leases	4.57 %

Future minimum lease payments under non-cancellable operating lease liabilities as of December 30, 2023 are as follows:

Year	(In millions)
2024	\$ 132
2025	107
2026	108
2027	87
2028	61
2029 and thereafter	283
Total minimum lease payments	<u>778</u>
Less: interest	(137)
Present value of net minimum lease payments	<u>641</u>
Less: current portion	(106)
Total long-term operating lease liabilities	<u>\$ 535</u>

Certain other operating leases contain provisions for escalating lease payments subject to changes in the consumer price index.

**Commitments**

The Company's purchase commitments primarily include the Company's obligations to purchase wafers and substrates from third parties and future payments related to certain software and technology licenses and IP licenses. Purchase commitments include obligations made under noncancellable purchase orders and contractual obligations requiring minimum purchases or for which cancellation would lead to significant penalties.

Total future unconditional purchase commitments as of December 30, 2023 were as follows:

Year	(In millions)	
2024	\$	3,858
2025		351
2026		186
2027		51
2028		49
2029 and thereafter		99
Total unconditional purchase commitments	\$	<u>4,594</u>

On an ongoing basis, the Company works with suppliers on the timing of payments and deliveries of purchase commitments, taking into account business conditions.

**Warranties and Indemnities**

The Company generally warrants that its products sold to its customers will conform to its approved specifications and be free from defects in material and workmanship under normal use and conditions for one year. The Company may also offer one to three-year limited warranties based on product type and negotiated warranty terms with certain customers. The Company accrues warranty costs to Cost of sales at the time of sale of warranted products.

Changes in the Company's estimated liability for product warranty during 2023 and 2022 are as follows:

	December 30, 2023	(In millions)	December 31, 2022
Beginning balance	\$	65	\$ 51
Provisions during the period		126	115
Settlements during the period		(106)	(101)
Ending balance	\$	<u>85</u>	<u>\$ 65</u>

In addition to product warranties, the Company from time to time in its normal course of business indemnifies other parties with whom it enters into contractual relationships, including customers, lessors and parties to other transactions with the Company, with respect to certain matters. In these limited matters, the Company has agreed to hold certain third parties harmless against specific types of claims or losses such as those arising from a breach of representations or covenants, third-party claims that the Company's products when used for their intended purpose(s) and under specific conditions infringe the intellectual property rights of a third party, or other specified claims made against the indemnified party. It is not possible to determine the maximum potential amount of liability under these indemnification obligations due to the unique facts and circumstances that are likely to be involved in each particular claim and indemnification provision. Historically, payments made by the Company under these obligations have not been material. In addition, the impact from changes in estimates for pre-existing warranties has been immaterial.

**NOTE 17 – Contingencies***Litigation and Other Legal Matters*

As of December 30, 2023, there were no material legal proceedings.

The Company is a defendant or plaintiff in various actions that arose in the normal course of business. With respect to these matters, based on management's current knowledge, the Company believes that the amount or range of reasonably possible loss, if any, will not, either individually or in the aggregate, have a material adverse effect on the Company's financial condition, results of operations, or cash flows.

*Environmental Matters*

The Company is named as a responsible party on Superfund clean-up orders for three sites in Sunnyvale, California that are on the National Priorities List. Since 1981, the Company has discovered hazardous material releases to the groundwater from former underground tanks and proceeded to investigate and conduct remediation at these three sites. The chemicals released into the groundwater were commonly used in the semiconductor industry in the United States in the wafer fabrication process prior to 1979.

In 1991, the Company received Final Site Clean-up Requirements Orders from the California Regional Water Quality Control Board relating to the three sites. The Company has entered into settlement agreements with other responsible parties on two of the orders. During the term of such agreements, other parties have agreed to assume most of the foreseeable costs as well as the primary role in conducting remediation activities under the orders. The Company remains responsible for additional costs beyond the scope of the agreements as well as all remaining costs in the event that the other parties do not fulfill their obligations under the settlement agreements.

To address anticipated future remediation costs under the orders, the Company has computed and recorded an estimated environmental liability of approximately \$4.8 million and has not recorded any potential insurance recoveries in determining the estimated costs of the cleanup. The progress of future remediation efforts cannot be predicted with certainty and these costs may change. The Company believes that any amount in addition to what has already been accrued would not be material.

## Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of Advanced Micro Devices, Inc.

### Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Advanced Micro Devices, Inc. (the Company) as of December 30, 2023 and December 31, 2022, the related consolidated statements of operations, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 30, 2023, and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 30, 2023 and December 31, 2022, and the results of its operations and its cash flows for each of the three years in the period ended December 30, 2023, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 30, 2023, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework), and our report dated January 31, 2024 expressed an unqualified opinion thereon.

### Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

### Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current period audit of the financial statements that was communicated or required to be communicated to the audit committee and that: (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of the critical audit matter does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.



## Inventory Valuation

*Description of the Matter*

At December 30, 2023, the Company's net inventory balance was \$4,351 million. As discussed in Note 2 to the consolidated financial statements, the Company adjusts the inventory carrying value to the lower of actual cost or the estimated net realizable value after completing ongoing reviews of on-hand inventory quantities exceeding forecasted demand, and by considering recent historical activity as well as anticipated demand.

Auditing management's inventory excess and obsolescence reserves involved significant judgment because the estimates are based on several factors that are affected by market, industry, and competitive conditions outside the Company's control. In estimating excess and obsolescence reserves, management developed certain assumptions, including forecasted demand which are sensitive to the competitiveness of product offerings, customer requirements, and product life cycles. These significant assumptions are forward-looking and could be affected by future economic and market conditions.

*How We Addressed the Matter in Our Audit*

We obtained an understanding, evaluated the design and tested the operating effectiveness of internal controls over the Company's inventory excess and obsolescence reserves estimation process, including the basis for developing the above-described assumptions and management's judgments.

Our audit procedures included, among others, testing the reasonableness of management's key assumptions and judgments and testing the accuracy and completeness of the underlying data used to determine the amount of excess and obsolescence reserves. We compared the quantities and carrying value of on-hand inventories to related unit sales, both historical and forecasted, and evaluated the appropriateness and adequacy of management's adjustments to such sales forecasts by analyzing potential technological changes in line with product life cycles. We also assessed the accuracy of forecasts underlying management's estimates by comparing management's historical forecasts to actual results, evaluated industry and market factors and performed sensitivity analyses over the forecasted demand used by management to determine necessary changes in the inventory excess and obsolescence reserves.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 1970.

San Jose, California

January 31, 2024

## Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of Advanced Micro Devices, Inc.

### Opinion on Internal Control Over Financial Reporting

We have audited Advanced Micro Devices, Inc.'s internal control over financial reporting as of December 30, 2023, based on criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Advanced Micro Devices, Inc. (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 30, 2023, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of the Company as of December 30, 2023 and December 31, 2022, the related consolidated statements of operations, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 30, 2023, and the related notes and our report dated January 31, 2024 expressed an unqualified opinion thereon.

### Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

### Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP

San Jose, California

January 31, 2024

## ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

## ITEM 9A. CONTROLS AND PROCEDURES

### Disclosure Controls and Procedures

We maintain disclosure controls and procedures that are designed with the objective of providing reasonable assurance that information required to be disclosed in our reports filed under the Exchange Act, such as this Annual Report on Form 10-K is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure. In designing and evaluating our disclosure controls and procedures, our management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives, and our management is required to apply its judgment in evaluating the cost-benefit relationship of possible controls and procedures.

As of December 30, 2023, the end of the period covered by this report, we carried out an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures pursuant to Exchange Act Rules 13a-15(e) and 15d-15(e). This type of evaluation is performed on a quarterly basis so that conclusions of management, including our Chief Executive Officer and Chief Financial Officer, concerning the effectiveness of the disclosure controls can be reported in our periodic reports on Form 10-Q and Form 10-K. The overall goals of these evaluation activities are to monitor our disclosure controls and to modify them as necessary. We intend to maintain the disclosure controls as dynamic systems that we adjust as circumstances merit. Based on the foregoing, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective at the reasonable assurance level as of the end of the period covered by this report.

### Management's Report on Internal Control over Financial Reporting

Internal control over financial reporting refers to the process designed by, or under the supervision of, our Chief Executive Officer and Chief Financial Officer, and effected by our Board of Directors, management and other personnel, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with U.S. generally accepted accounting principles, and includes those policies and procedures that:

1. Pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the Company;
2. Provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. generally accepted accounting principles, and that receipts and expenditures of the Company are being made only in accordance with authorizations of management and directors of the Company; and
3. Provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the Company's assets that could have a material effect on the financial statements. Internal control over financial reporting cannot provide absolute assurance of achieving financial reporting objectives because of its inherent limitations.

Internal control over financial reporting is a process that involves human diligence and compliance and is subject to lapses in judgment and breakdowns resulting from human failures. Internal control over financial reporting also can be circumvented by collusion or improper management override. Because of such limitations, there is a risk that material misstatements may not be prevented or detected on a timely basis by internal control over financial reporting. However, these inherent limitations are known features of the financial reporting process. Therefore, it is possible to design into the process safeguards to reduce, though not eliminate, this risk. Management is responsible for establishing and maintaining adequate internal control over financial reporting for the Company.

Management has used the 2013 framework set forth in the report entitled "Internal Control—Integrated Framework" published by the Committee of Sponsoring Organizations of the Treadway Commission to evaluate the effectiveness of the Company's internal control over financial reporting. Management has concluded that the Company's internal control over financial reporting was effective as of December 30, 2023 at the reasonable assurance level. Our independent registered public accounting firm, Ernst & Young LLP, has issued an attestation report on the Company's internal control over financial reporting as of December 30, 2023, which is included in Part II, Item 8, above.

#### Changes in Internal Control over Financial Reporting

During the year ended December 30, 2023, we completed the implementation of our new enterprise resource planning (ERP) system to help us manage our operations and financial reporting. In connection with this implementation, we modified the design and documentation of our internal control processes and procedures relating to the new system. Following the implementation, the changes to our control environment were validated according to our established processes and our internal controls over financial reporting continued to operate as designed. There were no other changes in our internal controls over financial reporting during our most recently completed fiscal year that has materially affected, or is reasonably likely to materially affect, our internal controls over financial reporting.

#### ITEM 9B. OTHER INFORMATION

During the quarterly period ended December 30, 2023, the following directors and officers adopted, modified or terminated 10b5-1 plans:

Name	Title of Director or Officer	Action	Date	Trading Arrangement		Total Shares to be Sold	Expiration Date
				Rule 10b5-1*	Non-Rule 10b5-1**		
Lisa Su	Chair, President and Chief Executive Officer	Adopt	November 20, 2023	X		834,226	December 5, 2024
Mark Papermaster	Executive Vice President, Chief Technology Officer	Adopt	November 15, 2023	X		97,756	November 15, 2024

\* Intended to satisfy the affirmative defense of Rule 10b5-1(c)

\*\* Not intended to satisfy the affirmative defense of Rule 10b5-1(c)

#### ITEM 9C. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS

Not applicable.

## PART III

### ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information under the captions “Item 1—Election of Directors” (including “Consideration of Stockholder Nominees for Director”), “Corporate Governance,” “Meetings and Committees of the Board of Directors,” “Executive Officers” and “Section 16(a) Beneficial Ownership Reporting Compliance” in our proxy statement for our 2024 annual meeting of stockholders (our 2024 Proxy Statement) is incorporated herein by reference. There were no material changes to the procedures by which stockholders may recommend nominees to our board of directors. See also, “Part 1, Item 1-Website Access to our SEC Filings and Corporate Governance Documents,” above.

### ITEM 11. EXECUTIVE COMPENSATION

The information under the captions “Directors’ Compensation and Benefits” (including “2023 Non-Employee Director Compensation”), “Compensation Discussion and Analysis,” “Executive Compensation” (including “2023 Summary Compensation Table,” “2023 Nonqualified Deferred Compensation,” “Outstanding Equity Awards at 2023 Fiscal Year-End,” “Grants of Plan-Based Awards in 2023” and “Option Exercises and Stock Vested in 2023,” “Severance and Change in Control Arrangements” and “Chief Executive Officer Pay Ratio”), and “Compensation and Leadership Resources Committee Report” in our 2024 Proxy Statement is incorporated herein by reference.

### ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information under the captions “Principal Stockholders,” “Security Ownership of Directors and Executive Officers” and “Equity Compensation Plan Information” in our 2024 Proxy Statement is incorporated herein by reference.

### ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

The information under the captions “Corporate Governance—Independence of Directors” and “Certain Relationships and Related Transactions” in our 2024 Proxy Statement is incorporated herein by reference.

### ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The information under the captions “Item 2—Ratification of Appointment of Independent Registered Public Accounting Firm—Independent Registered Public Accounting Firm’s Fees” in our 2024 Proxy Statement is incorporated herein by reference.

With the exception of the information specifically incorporated by reference in Part III of this Annual Report on Form 10-K from our 2024 Proxy Statement, our 2024 Proxy Statement will not be deemed to be filed as part of this report. Without limiting the foregoing, the information under the captions “Compensation and Leadership Resources Committee Report” and “Audit and Finance Committee Report” in our 2024 Proxy Statement is not incorporated by reference in this Annual Report on Form 10-K.

## PART IV

## ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

## 1. Financial Statements

The financial statements of AMD are set forth in Item 8 of this Annual Report on Form 10-K, as indexed below.

Index to Consolidated Financial Statements

<a href="#">Consolidated Statements of Operations</a>	54
<a href="#">Consolidated Statements of Comprehensive Income</a>	55
<a href="#">Consolidated Balance Sheets</a>	56
<a href="#">Consolidated Statements of Stockholders' Equity</a>	57
<a href="#">Consolidated Statements of Cash Flows</a>	58
<a href="#">Notes to Consolidated Financial Statements</a>	60
<a href="#">Reports of Independent Registered Public Accounting Firm</a> (PCAOB ID: 42)	90

All schedules have been omitted because the information is not required, is not applicable, or is included in the Notes to the Consolidated Financial Statements.

## 2. Exhibits

The exhibits listed in the accompanying Index to Exhibits are filed as part of, or incorporated by reference into, this Annual Report on Form 10-K. The following is a list of such Exhibits:

Exhibit	Description of Exhibits
2.1	<a href="#">Agreement and Plan of Merger by and among Advanced Micro Devices, Inc., Thrones Merger Sub, Inc., and Xilinx, Inc. dated October 26, 2020, filed as exhibit 2.1 to AMD's Current Report on Form 8-K dated October 26, 2020, is hereby incorporated by reference.</a>
3.1	<a href="#">Amended and Restated Certificate of Incorporation of Advanced Micro Devices, Inc., dated May 2, 2018, filed as Exhibit 3.1 to AMD's Quarterly Report on Form 10-Q for the period ended June 30, 2018, is hereby incorporated by reference.</a>
3.2	<a href="#">Advanced Micro Devices, Inc. Amended and Restated Bylaws, as amended on January 29, 2021 filed as Exhibit 3.2 to AMD's Annual Report on Form 10-K for the fiscal year ended December 26, 2020, is hereby incorporated by reference.</a>
4.1	<a href="#">Description of Advanced Micro Devices, Inc. Common Stock, filed as Exhibit 4.1 to AMD's Quarterly Report on Form 10-Q for the period ended June 25, 2022, is hereby incorporated by reference.</a>
4.2	<a href="#">Indenture by and among Advanced Micro Devices, Inc. and Wells Fargo Bank N.A., dated September 14, 2016, filed as Exhibit 4.1 to AMD's Current Report on Form 8-K dated September 14, 2016, is hereby incorporated by reference.</a>
4.3	<a href="#">First Supplemental Indenture governing 2.125% Convertible Senior Notes due 2026, including Form of 2.125% Note, between Advanced Micro Devices, Inc. and Wells Fargo Bank, N.A. dated September 14, 2016, filed as Exhibit 4.2 to AMD's Current Report on Form 8-K dated September 14, 2016, is hereby incorporated by reference.</a>
4.4	<a href="#">First Supplemental Indenture by and among Advanced Micro Devices, Inc. and Wells Fargo Bank N.A., dated September 23, 2016, filed as Exhibit 4.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 24, 2016, is hereby incorporated by reference.</a>

- 4.5 [Fourth Supplemental Indenture governing the Xilinx 2.950% Senior Notes Due 2024, by and among Xilinx, Inc., Advanced Micro Devices, Inc. and U.S. Bank Trust Company, National Association, dated February 14, 2022, filed as Exhibit 4.1 to AMD's Current Report on Form 8-K dated February 14, 2022, is hereby incorporated by reference.](#)
- 4.6 [Second Supplemental Indenture governing the Xilinx 2.2375% Senior Notes due 2030, by and among Xilinx, Inc., Advanced Micro Devices, Inc. and U.S. Bank Trust Company, National Association, dated February 14, 2022, filed as Exhibit 4.2 to AMD's Current Report on Form 8-K dated February 14, 2022, is hereby incorporated by reference.](#)
- 4.7 [Indenture, dated as of June 9, 2022, by and between Advanced Micro Devices, Inc. and U.S. Bank Trust Company, National Association, as trustee, filed as exhibit 4.1 to AMD's Current Report on Form 8-K dated June 9, 2022, is hereby incorporated by reference.](#)
- 4.8 [First Supplemental Indenture, dated as of June 9, 2022, by and between the Company and U.S. Bank Trust Company, National Association, as trustee, including the Form of 2032 Note and Form of 2052 Note, filed as exhibit 4.2 to AMD's Current Report on Form 8-K dated June 9, 2022, is hereby incorporated by reference.](#)
- \*10.1 [2011 Executive Incentive Plan, filed as Exhibit 10.2 to AMD's Quarterly Report on Form 10-Q for the period ended April 2, 2011, is hereby incorporated by reference.](#)
- \*10.2 [AMD Executive Severance Plan and Summary Plan Description for Senior Vice Presidents, effective June 1, 2013, filed as Exhibit 10.1 to AMD's Current Report on Form 8-K dated June 7, 2013, is hereby incorporated by reference.](#)
- \*10.3 [AMD Deferred Income Account Plan, as amended and restated, effective January 1, 2008, filed as Exhibit 10.18 to AMD's Annual Report on Form 10-K for the fiscal year ended December 29, 2007, is hereby incorporated by reference.](#)
- \*10.4 [Amendment No. 1 to the AMD Deferred Income Account Plan, as amended and restated, effective July 1, 2012, filed as Exhibit 10.16\(a\) to AMD's Annual Report on Form 10-K for the period ended December 29, 2012, is hereby incorporated by reference.](#)
- \*10.5 [Form of Indemnity Agreement, between Advanced Micro Devices, Inc. and its officers and directors, filed as Exhibit 10.1 to AMD's Current Report on Form 8-K dated October 6, 2008, is hereby incorporated by reference.](#)
- \*10.6 [Form of Management Continuity Agreement, as amended and restated, filed as Exhibit 10.13\(b\) to AMD's Annual Report on Form 10-K for the fiscal year ended December 29, 2007, is hereby incorporated by reference.](#)
- \*10.7 [Form of Change in Control Agreement, filed as Exhibit 10.11 to AMD's Annual Report on Form 10-K for the fiscal year ended December 26, 2009, is hereby incorporated by reference.](#)
- \*10.8 [Amended and Restated Management Continuity Agreement, between Advanced Micro Devices, Inc. and Devinder Kumar, filed as Exhibit 10.3 to AMD's Quarterly Report on Form 10-Q for the period ended September 29, 2012, is hereby incorporated by reference.](#)
- \*10.9 [Offer Letter, between Advanced Micro Devices, Inc. and Mark D. Papermaster, dated October 7, 2011, filed as Exhibit 10.63 to AMD's Annual Report on Form 10-K for the period ended December 31, 2011, is hereby incorporated by reference.](#)
- 10.10 [Settlement Agreement, between Advanced Micro Devices, Inc. and Intel Corporation, dated November 11, 2009, filed as Exhibit 10.1 to AMD's Current Report on Form 8-K dated November 11, 2009, is hereby incorporated by reference.](#)
- \*\*10.11 [Patent Cross License Agreement, between Advanced Micro Devices, Inc. and Intel Corporation filed, dated November 11, 2009, as Exhibit 10.2 to AMD's Current Report on Form 8-K dated November 17, 2009, is hereby incorporated by reference.](#)
- 10.12 [Sublease Agreement, between Lantana HP, LTD and Advanced Micro Devices, Inc., dated March 26, 2013, filed as Exhibit 10.2 to AMD's Quarterly Report on Form 10-Q for the period ended March 30, 2013, is hereby incorporated by reference.](#)



- 10.13 [Master Landlord's Consent to Sublease, between 7171 Southwest Parkway Holdings, L.P., Lantana HP, Ltd. and Advanced Micro Devices, Inc., dated March 26, 2013, filed as Exhibit 10.3 to AMD's Quarterly Report on Form 10-Q for the period ended March 30, 2013, is hereby incorporated by reference.](#)
- 10.14 [Lease Agreement, between 7171 Southwest Parkway Holdings, L.P. and Lantana HP, Ltd., dated March 26, 2013, filed as Exhibit 10.4 to AMD's Quarterly Report on Form 10-Q for the period ended March 30, 2013, is hereby incorporated by reference.](#)
- \*10.15 [Employment Agreement by and between Lisa T. Su and Advanced Micro Devices, Inc. effective October 8, 2014, filed as Exhibit 10.2 to AMD's Current Report on Form 8-K/A dated October 14, 2014, is hereby incorporated by reference.](#)
- \*10.16 [Form of Stock Option Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 27, 2014, is hereby incorporated by reference.](#)
- \*10.17 [Offer Letter, between Advanced Micro Devices, Inc. and Forrest E. Norrod, dated October 20, 2014, filed as Exhibit 10.66 to AMD's Annual Report on Form 10-K for the fiscal year ended December 27, 2014, is hereby incorporated by reference.](#)
- \*10.18 [Advanced Micro Devices, Inc. Executive Severance Plan and Summary Plan Description for Senior Vice Presidents effective December 31, 2014, filed as Exhibit 10.68 to AMD's Annual Report on Form 10-K for the fiscal year ended December 27, 2014, is hereby incorporated by reference.](#)
- \*10.19 [Form of Stock Option Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 26, 2015, is hereby incorporated by reference.](#)
- 10.20 [Equity Interest Purchase Agreement by and between Advanced Micro Devices, Inc. and Nantong Fujitsu Microelectronics Co., Ltd. dated as of October 15, 2015, filed as Exhibit 10.1 to AMD's Current Report on Form 8-K dated October 15, 2015, is hereby incorporated by reference.](#)
- \*10.21 [Form of Stock Option Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.78 to AMD's Annual Report on Form 10-K for the fiscal year ended December 26, 2015, is hereby incorporated by reference.](#)
- \*10.22 [Form of Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.79 to AMD's Annual Report on Form 10-K for the fiscal year ended December 26, 2015, is hereby incorporated by reference.](#)
- \*10.23 [Form of Performance-Based Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.80 to AMD's Annual Report on Form 10-K for the fiscal year ended December 26, 2015, is hereby incorporated by reference.](#)
- \*10.24 [Form of Stock Option Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.88 to AMD's Annual Report on Form 10-K for the fiscal year ended December 31, 2016, is hereby incorporated by reference.](#)
- \*10.25 [Form of Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2004 Equity Plan, filed as Exhibit 10.89 to AMD's Annual Report on Form 10-K for the fiscal year ended December 31, 2016, is hereby incorporated by reference.](#)
- \*10.26 [Form of Performance-Based Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.90 to AMD's Annual Report on Form 10-K for the fiscal year ended December 31, 2016, is hereby incorporated by reference.](#)
- \*10.27 [Form of Stock Option Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.2 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended April 4, 2017, is hereby incorporated by reference.](#)
- \*10.28 [Amended and Restated 2017 Employee Stock Purchase Plan dated August 23, 2018, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 29, 2018, is hereby incorporated by reference.](#)

- \*10.29 [2017 Employee Stock Purchase Plan, as amended and restated October 12, 2017, filed as Exhibit 10.98 to AMD's Annual Report on Form 10-K for the fiscal year ended December 30, 2017, is hereby incorporated by reference.](#)
- \*10.30 [Form of Stock Option Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.99 to AMD's Annual Report on Form 10-K for the fiscal year ended December 30, 2017, is hereby incorporated by reference.](#)
- \*10.31 [Form of Restricted Stock Unit Award Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.100 to AMD's Annual Report on Form 10-K for the fiscal year ended December 30, 2017, is hereby incorporated by reference.](#)
- \*10.32 [Form of Performance-Based Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan filed as Exhibit 10.101 to AMD's Annual Report on Form 10-K for the fiscal year ended December 30, 2017, is hereby incorporated by reference.](#)
- \*10.33 [Amendment to Advanced Micro Devices, Inc. Executive Incentive Plan dated as of February 8, 2018, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2018, is hereby incorporated by reference.](#)
- \*10.34 [Form of Stock Option Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive plan, filed as Exhibit 10.103 to AMD's Annual Report on Form 10-K for the fiscal year ended December 29, 2018, is hereby incorporated by reference.](#)
- \*10.35 [Form of Performance-Based Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.104 to AMD's Annual Report on Form 10-K for the fiscal year ended December 29, 2018, is hereby incorporated by reference.](#)
- \*10.36 [Form of Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.105 to AMD's Annual Report on Form 10-K for the fiscal year ended December 29, 2018, is hereby incorporated by reference.](#)
- \*10.37 [Offer Letter between Advanced Micro Devices, Inc. and Rick Bergman dated August 1, 2019, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 28, 2019, is hereby incorporated by reference.](#)
- \*10.38 [Sign-On Bonus Letter between Advanced Micro Devices, Inc. and Rick Bergman dated August 1, 2019, filed as Exhibit 10.2 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 28, 2019, is hereby incorporated by reference.](#)
- \*10.39 [Value Creation Performance-Based Restricted Stock Unit Grant Notice between Advanced Micro Devices, Inc. and Lisa T. Su, dated August 9, 2019, filed as Exhibit 10.3 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 28, 2019, is hereby incorporated by reference.](#)
- \*10.40 [Value Creation Performance-Based Restricted Stock Unit Grant Notice between Advanced Micro Devices, Inc. and Mark Papermaster, dated August 9, 2019, filed as Exhibit 10.4 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 28, 2019, is hereby incorporated by reference.](#)
- \*10.41 [Amendment to Advanced Micro Devices, Inc. Executive Incentive Plan dated as of August 21, 2019, filed as Exhibit 10.6 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 28, 2019, is hereby incorporated by reference.](#)
- \*10.42 [2004 Equity Incentive Plan, as amended and restated, dated August 21, 2019, filed as Exhibit 10.7 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 28, 2019, is hereby incorporated by reference.](#)
- \*10.43 [Form of Performance-Based Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended June 27, 2020, is hereby incorporated by reference.](#)

- \*10.44 [Form of Stock Option Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive plan, filed as Exhibit 10.2 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended June 27, 2020, is hereby incorporated by reference.](#)
- \*10.45 [Form of Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.3 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended June 27, 2020, is hereby incorporated by reference.](#)
- \*\*10.46 [Wafer Supply Agreement, among Advanced Micro Devices, Inc., The Foundry Company and AMD Fab Technologies US, Inc., dated March 2, 2009, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 26, 2020, is hereby incorporated by reference.](#)
- \*\*10.47 [Wafer Supply Agreement Amendment No. 1, among Advanced Micro Devices, Inc., GLOBALFOUNDRIES Inc., GLOBALFOUNDRIES U.S. Inc. and GLOBALFOUNDRIES Singapore, Pte. Ltd., dated March 29, 2011, filed as Exhibit 10.2 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 26, 2020, is hereby incorporated by reference.](#)
- \*\*10.48 [Wafer Supply Agreement Amendment No. 2, among Advanced Micro Devices, Inc., GLOBALFOUNDRIES Inc., GLOBALFOUNDRIES U.S. Inc., Advanced Technology Investment Company LLC and ATIC International Investment Company LLC, dated March 4, 2012, filed as Exhibit 10.3 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 26, 2020, is hereby incorporated by reference.](#)
- \*\*10.49 [Wafer Supply Agreement Amendment No. 3, among Advanced Micro Devices, Inc., GLOBALFOUNDRIES Inc. and GLOBALFOUNDRIES U.S. Inc., dated December 6, 2012, filed as Exhibit 10.4 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 26, 2020, is hereby incorporated by reference.](#)
- \*\*10.50 [Wafer Supply Agreement Amendment No. 4, among Advanced Micro Devices, Inc., GLOBALFOUNDRIES Inc. and GLOBALFOUNDRIES U.S. Inc., dated March 30, 2014, filed as Exhibit 10.5 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 26, 2020, is hereby incorporated by reference.](#)
- \*\*10.51 [Wafer Supply Agreement Amendment No. 5, among Advanced Micro Devices, Inc., GLOBALFOUNDRIES Inc. and GLOBALFOUNDRIES U.S. Inc., dated as of April 16, 2015, filed as Exhibit 10.6 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 26, 2020, is hereby incorporated by reference.](#)
- \*\*10.52 [Wafer Supply Agreement Amendment No. 6, among Advanced Micro Devices, Inc., GLOBALFOUNDRIES, Inc. and GLOBALFOUNDRIES U.S., Inc., dated August 30, 2016, filed as Exhibit 10.7 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 26, 2020, is hereby incorporated by reference.](#)
- \*\*10.53 [Wafer Supply Agreement Amendment No. 7, among Advanced Micro Devices, Inc., GLOBALFOUNDRIES Inc. and GLOBALFOUNDRIES U.S. Inc., dated January 28, 2019, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended March 30, 2019, is hereby incorporated by reference.](#)
- 10.54 [Company-Provided Business Aircraft Usage and Commercial Travel by Personal Guests Policy revised as of January 25, 2021, filed as Exhibit 10.58 to AMD's Annual Report on Form 10-K for the fiscal year ended December 26, 2020, is hereby incorporated by reference.](#)
- \*10.55 [Form of Performance-Based Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended June 26, 2021, is hereby incorporated by reference.](#)
- \*10.56 [Form of Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive Plan, filed as Exhibit 10.2 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended June 26, 2021, is hereby incorporated by reference.](#)
- \*10.57 [Form of Stock Option Agreement for Senior Vice Presidents and Above under the 2004 Equity Incentive plan, filed as Exhibit 10.3 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended June 26, 2021, is hereby incorporated by reference.](#)

- \*\*10.58 [Amended and Restated Wafer Supply Agreement Amendment No. 7, among Advanced Micro Devices, Inc., GLOBALFOUNDRIES, Inc. and GLOBALFOUNDRIES U.S. Inc., dated as of May 12, 2021, filed as Exhibit 10.4 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended June 26, 2021, is hereby incorporated by reference.](#)
- \*\*10.59 [First Amendment to Amended and Restated Wafer Supply Agreement No. 7, among Advanced Micro Devices, Inc., GLOBALFOUNDRIES, Inc. and GLOBALFOUNDRIES U.S. Inc., dated December 23, 2021, filed as Exhibit 10.63 to AMD's Annual Report on Form 10-K for the year ended December 25, 2021, is hereby incorporated by reference.](#)
- 10.60 [Credit Agreement dated as of April 29, 2022 by and among Advanced Micro Devices, Inc. as borrower, the lenders referred to therein, as lenders, and Wells Fargo Bank, National Association, as administrative agent, swingline lender and an issuing lender, filed as Exhibit 10.1 to AMD's Current Report on Form 8-K dated April 29, 2022, is hereby incorporated by reference.](#)
- \*10.61 [Xilinx, Inc. 2007 Equity Incentive Plan, effective as of January 1, 2007, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended March 26, 2022, is hereby incorporated by reference.](#)
- \*10.62 [2004 Equity Incentive Plan, as amended and restated, filed as Exhibit 10.2 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended March 26, 2022, is hereby incorporated by reference.](#)
- \*10.63 [Offer Letter between Advanced Micro Devices, Inc. and Victor Peng dated March 8, 2022, filed as Exhibit 10.3 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended March 26, 2022, is hereby incorporated by reference.](#)
- \*10.64 [Form of Performance-Based Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the Xilinx, Inc. 2007 Equity Incentive Plan, filed as Exhibit 10.2 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended June 25, 2022, is hereby incorporated by reference.](#)
- \*10.65 [Form of Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the Xilinx, Inc. 2007 Equity Incentive Plan, filed as Exhibit 10.3 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended June 25, 2022, is hereby incorporated by reference.](#)
- \*10.66 [Outside Director Equity Compensation Policy, as amended and restated, dated as of August 10, 2022, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 24, 2022, is hereby incorporated by reference.](#)
- \*10.67 [Offer Letter between Advanced Micro Devices, Inc. and Jean Hu, dated as of January 6, 2023, filed as Exhibit 10.1 to AMD's Current Report on Form 8-K dated January 8, 2023, is hereby incorporated by reference.](#)
- \*10.68 [Sign-On Bonus Agreement between Advanced Micro Devices, Inc. and Jean Hu, dated as of January 8, 2023, filed as Exhibit 10.2 to AMD's Current Report on Form 8-K dated January 8, 2023, is hereby incorporated by reference.](#)
- \*10.69 [Retirement Transition Agreement and General Release between Advanced Micro Devices, Inc. and Devinder Kumar, dated as of February 15, 2023, filed as Exhibit 10.1 to AMD's Current Report on Form 8-K/A dated January 1, 2023, is hereby incorporated by reference.](#)
- \*10.70 [Advanced Micro Devices, Inc. 2023 Equity Incentive Plan, filed as Exhibit A to AMD's Definitive Proxy Statement on Schedule 14A dated March 31, 2023, is hereby incorporated by reference.](#)
- \*10.71 [Form of Stock Option Agreement for Senior Vice Presidents and Above under the 2023 Equity Incentive plan, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended July 1, 2023, is hereby incorporated by reference.](#)
- \*10.72 [Form of Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2023 Equity Incentive Plan, filed as Exhibit 10.2 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended July 1, 2023, is hereby incorporated by reference.](#)

*10.73	<a href="#">Form of Performance-Based Restricted Stock Unit Agreement for Senior Vice Presidents and Above under the 2023 Equity Incentive Plan, filed as Exhibit 10.3 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended July 1, 2023, is hereby incorporated by reference.</a>
10.74	<a href="#">First Amendment to Credit Agreement, dated as of September 22, 2023, among Advanced Micro Devices, Inc. as borrower, the lenders referred to therein, as lenders, Wells Fargo Securities, LLC, as sustainability structuring agent, and Wells Fargo Bank, National Association, as administrative agent, filed as Exhibit 10.1 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 30, 2023, is hereby incorporated by reference.</a>
10.75	<a href="#">Seventh Amendment to Lease between Summit Lantana Owner, LP and Advanced Micro Devices, Inc., dated as of October 27, 2023, filed as Exhibit 10.2 to AMD's Quarterly Report on Form 10-Q for the fiscal quarter ended September 30, 2023, is hereby incorporated by reference.</a>
*10.76	<a href="#">Amendment to Advanced Micro Devices, Inc. Executive Incentive Plan dated as of February 23, 2022.</a>
*10.77	<a href="#">Form of Change of Control Agreement.</a>
**10.78	<a href="#">Intellectual Property Cross-License Agreement between Advanced Micro Devices, Inc. and Broadcom Corporation, effective as of August 25, 2008.</a>
**10.79	<a href="#">IP Core License Agreement between Advanced Micro Devices, Inc. and Broadcom Corporation, effective as of August 25, 2008.</a>
21	<a href="#">List of AMD subsidiaries.</a>
23	<a href="#">Consent of Independent Registered Public Accounting Firm.</a>
24	<a href="#">Power of Attorney.</a>
31.1	<a href="#">Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</a>
31.2	<a href="#">Certification of the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</a>
32.1	<a href="#">Certification of the Principal Executive Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</a>
32.2	<a href="#">Certification of the Principal Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</a>
97	<a href="#">Compensation Recovery Policy adopted by the Board of Directors of Advanced Micro Devices, Inc., effective as of November 17, 2023.</a>
101.INS	XBRL Instance Document -the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document
104	Cover Page Interactive Data File -the Cover Page Interactive Data File does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document

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\* Management contracts and compensatory plans or arrangements.

\*\* Portions of this exhibit have been omitted because they are both (i) not material and (ii) would be competitively harmful if publicly disclosed.

AMD will furnish a copy of any exhibit on request and payment of AMD's reasonable expenses of furnishing such exhibit.

**ITEM 16. FORM 10-K SUMMARY**

Not applicable.



**Advanced Micro Devices, Inc.  
Executive Incentive Plan**

(Amendment and Restatement Approved by the Board of Directors on February 12, 2016)

(Approved by the Stockholders on May 12, 2016)

(Amendment Approved by the Board of Directors on February 8, 2018)

(Amendment and Restatement Approved by the Board of Directors on August 21, 2019)

(Amendment and Restatement Approved by the Board of Directors on February 23, 2022)

1. Purposes.

The purposes of the Advanced Micro Devices, Inc. ("AMD") Executive Incentive Plan are to motivate the Company's key employees to improve stockholder value by linking a portion of their cash compensation to the Company's financial performance, reward key employees for improving the Company's financial performance, and help attract and retain key employees.

2. Definitions.

Wherever the following terms are used in the Plan they shall have the meanings specified below, unless the context clearly indicates otherwise.

- A. "Award" means, with respect to each Participant, any cash incentive payment made under the Plan for a Performance Period.
- B. "Code" means the Internal Revenue Code of 1986, as amended.
- C. "Committee" means the Compensation and Leadership Resources Committee of AMD's Board of Directors, or such other committee designated by that Board of Directors, which is authorized to administer the Plan under Section 3 hereof.
- D. "Company" means AMD and any corporation or other business entity of which AMD (i) directly or indirectly has an ownership interest of 50% or more, or (ii) has a right to elect or appoint 50% or more of the board of directors or other governing body.
- E. "Designated Beneficiary" means a beneficiary designated by a Participant, in a manner determined by the Committee, to receive amounts payable in respect of a Participant under the Plan in the event of the Participant's death. If a Participant dies without an effective beneficiary designation, then amounts payable under the Plan in respect of such Participant shall be paid to the order of the Participant by (i) direct deposit to an account designated by the Participant for the deposit of the Participant's regular payroll or (ii) check mailed to the Participant's address on file with the Company.



- F. "Key Employee" means any employee of the Company whose performance the Committee determines can have a significant effect on the success of the Company.
- G. "Misconduct" means, as determined in the sole discretion of the Committee, a Participant's: (a) violation of his or her obligations regarding confidentiality, or the protection of sensitive, confidential, or proprietary information and trade secrets; (b) act or omission resulting in Participant being charged with a criminal offense involving moral turpitude, dishonesty, or breach of trust; (c) engaging in conduct which constitutes a felony (or state law equivalent), or plea of guilty or nolo contendere with respect to a felony (or state law equivalent) under applicable law; (d) engaging in conduct that constitutes gross neglect; (e) insubordination or refusal to implement directives of Participant's manager; (f) chronic absenteeism other than an approved leave of absence per the Company's policies; (g) failure to cooperate with any internal investigation of the Company; (h) violation of AMD's Worldwide Standards of Business Conduct or commission any other act of misconduct, or violation of any state or federal law relating to the workplace (including laws related to sexual harassment or age, sex or other prohibited discrimination); (i) material breach of the AMD Agreement, any Company policy, or any written agreement between Participant and the Company; (j) failure to substantially perform his or her job duties with the Company; or (k) poor performance of his or her job duties.
- H. "Participant" means any Key Employee to whom an Award is granted under the Plan.
- I. "Performance Period" means any fiscal year of the Company or such other period as determined by the Committee.
- J. "Plan" means this Plan, which shall be known as the AMD Executive Incentive Plan.

3. Administration.

- A. The Plan shall be administered by the Committee. The Committee shall have the authority to:
  - (i) interpret and determine all questions of policy and expediency pertaining to the Plan;
  - (ii) adopt such rules, regulations, agreements and instruments as it deems necessary for its proper administration;

- (iii) select Key Employees to receive Awards;
- (iv) determine the terms of Awards;
- (v) determine amounts subject to Awards (within the limits prescribed in the Plan);
- (vi) determine whether Awards will be granted in replacement of or as alternatives to any other incentive or compensation plan of the Company or an acquired business unit;
- (vii) grant waivers of Plan or Award conditions;
- (viii) accelerate the payment of Awards;
- (ix) correct any defect, supply any omission, or reconcile any inconsistency in the Plan, any Award or any Award notice;
- (x) take any and all other actions it deems necessary or advisable for the proper administration of the Plan;
- (xi) adopt such Plan procedures, regulations, subplans and the like as it deems are necessary to enable Key Employees to receive Awards; and
- (xii) amend the Plan at any time and from time to time.

B. The Committee may delegate its authority to grant and administer Awards to a separate committee.

4. Eligibility.

Only Key Employees as designated by the Committee are eligible to become Participants in the Plan. No person shall be automatically entitled to participate in the Plan.

5. Performance Goals.

- A. The Committee shall set forth in writing objectively determinable performance goals ("Performance Goals") applicable to a Participant for a Performance Period prior to the commencement of such Performance Period, provided, however, that such goals may be established after the start of the Performance Period.
- B. Each Performance Goal shall relate to one or more of the following criteria:
  - Net income
  - Operating income

- Earnings before interest and taxes
- Earnings before interest, taxes, depreciation and amortization
- Earnings per share
- Return on investment
- Return on capital
- Return on invested capital
- Return on capital compared to cost of capital
- Return on capital employed
- Return on equity
- Return on assets
- Return on net assets
- Total stockholder return
- Stockholder return
- Cash return on capitalization
- Revenue
- Revenue ratios (per employee or per customer)
- Stock price
- Market share
- Stockholder value
- Net cash flow
- Cash flow
- Cash flow from operations
- Cash balance
- Cash conversion cycle

- Cost reductions and cost ratios (per employee or per customer)
  - New product releases
  - Strategic positioning programs, including the achievement of specified milestones or the completion of specified projects
  - Performance and/or potential of the individual Participant
  - Workforce, diversity, inclusion, or other environmental, social or governance objectives
  - Any other criteria as determined by the Committee in its sole discretion.
- C. A Performance Goal applicable to an Award may provide for a targeted level or levels of achievement measured on a GAAP or non-GAAP basis, as determined by the Committee. A Performance Goal also may (but is not required to) be based solely by reference to the performance of the individual, the Company as a whole or any subsidiary, division, business segment or business unit of the Company, or any combination thereof or based upon the relative performance of other companies or upon comparisons of any of the indicators of performance relative to a peer group of other companies. Unless otherwise stated, such a Performance Goal need not be based upon an increase or positive result under a particular business criterion and could include, for example, maintaining the status quo or limiting economic losses (measured, in each case, by reference to specific business criteria). The Committee, in its sole discretion, may provide that one or more objectively determinable adjustments shall be made to one or more of the Performance Goals applicable to an Award. Such adjustments may include one or more of the following: (a) items related to a change in accounting principle; (b) items relating to financing activities; (c) expenses for restructuring or productivity initiatives; (d) other non-operating items; (e) items related to acquisitions; (f) items attributable to the business operations of any entity acquired by the Company during the applicable performance period; (g) items related to the disposal of a business or segment of a business; (h) items related to discontinued operations that do not qualify as a segment of a business under applicable accounting standards; (i) items attributable to any stock dividend, stock split, combination or exchange of stock occurring during the applicable performance period; (j) any other items of significant income or expense which are determined to be appropriate adjustments; (k) items relating to unusual or extraordinary corporate transactions, events or developments, (l) items related to amortization of acquired intangible assets; (m) items that are outside the scope of the Company's core, on-going business activities; (n) items related to acquired in-process research and development; (o) items relating to changes in tax laws;

(p) items relating to major licensing or partnership arrangements; (q) items relating to asset impairment charges; (r) items relating to gains or losses for litigation, arbitration and contractual settlements; or (s) items relating to any other unusual or nonrecurring events or changes in applicable law, accounting principles or business conditions.

- D. The Committee shall establish in writing a bonus formula specifying the target level and/or other level(s) of performance that must be achieved with respect to each criterion that is identified in a Performance Goal in order for an Award to be payable and shall, for each Participant, establish in writing a target (and/or other level(s)) Award payable under the Plan for the Performance Period upon attainment of the Performance Goals.
- E. In the event Performance Goals are based on more than one criterion, the Committee may determine to make Awards upon attainment of the Performance Goal relating to any one or more of such criteria, provided the Performance Goals, when established, are stated as alternatives to one another at the time the Performance Goal is established.

6. Awards.

- A. During any fiscal year of the Company, no Participant shall receive an Award of more than \$10,000,000.
- B. Except as provided Section 6.E., no Award shall be paid to a Participant unless and until the Committee makes a certification in writing with respect to the attainment of the Performance Goals. The Committee may in its sole discretion eliminate, reduce or increase an Award payable to a Participant pursuant to the applicable bonus formula.
- C. Unless otherwise directed by the Committee or as provided in Section 6.E., each Award shall be paid on the March 15 immediately following the end of the Performance Period to which such Award relates.
- D. The payment of an Award requires that the Participant be on the Company's payroll as of the date of payment of the Award; provided, however, that if the Participant's employment ends prior to the date of payment of the Award other than due to such Participant's death or involuntary employment termination for Misconduct, the Committee, in its sole discretion, may pay an Award to the Participant for the portion of the Performance Period that the Participant was employed by the Company, computed as determined by the Committee. For added clarity, unless applicable legislation mandates otherwise, no notice period, whether given by a Participant as notice of resignation or given by the Company (or which a court or tribunal determines ought to have been given by the

Company) as notice of termination shall operate to extend a Participant's eligibility to participate in the Plan or to receive payment of any Award (partial, pro-rated or otherwise), even if a Participant's employment is involuntarily terminated for any reason other than for Misconduct, unless the Committee decides otherwise. The payment to a Participant of any portion of his or her Award pursuant to this Section 6.D. may, in the sole discretion of the Committee, be conditioned on the Participant's timely execution and non-revocation of a written release in such form as may be determined by the Committee in its sole discretion.

- E. Notwithstanding anything in the Plan to the contrary, (i) if a Participant dies on or after January 1 of a calendar year and on or before the last day of the Performance Period that ends in such calendar year, the Company shall pay to the Participant's Designated Beneficiary the lump sum cash amount equal to the Participant's target Award amount for such Performance Period, prorated based on the number of days that have elapsed during such calendar year through the date of the Participant's death, and (ii) if a Participant dies after the end of a Performance Period, but before receiving payment of his or her Award for such Performance Period, the Company shall pay to the Participant's Designated Beneficiary the lump sum cash amount equal to the target Award amount for such Performance Period. Any amount payable under this Section 6.E. shall be paid on or before the date that is the later of (i) December 31 of the calendar year in which the Participant dies or (ii) ninety (90) days following the Participant's death.
- F. The Company shall withhold all applicable federal, state, local and foreign taxes required by law to be paid or withheld relating to the receipt or payment of any Award.
- G. At the discretion of the Committee, payment of an Award or any portion thereof may be deferred under a nonqualified deferred compensation plan maintained by the Committee until a time established by the Committee and in accordance with the terms of such plan.
- H. If a Participant is determined by the Committee, in its discretion, to have committed Misconduct, then, unless otherwise provided in the Participant's employment or other written agreement between the Participant and the Company that expressly refers to the Plan, the Participant shall immediately and irrevocably forfeit his or her right to receive any payments under the Plan.

7. General.

- A. Any rights of a Participant under the Plan shall not be assignable by such Participant, by operation of law or otherwise, except by will or the laws of descent and distribution. No Participant may create a lien on any funds or rights to which he or she may have an interest under the Plan, or which is held by the Company for the account of the Participant under the Plan.
- B. Participation in the Plan shall not give any Key Employee any right to remain in the employ of the Company. Further, the adoption of this Plan shall not be deemed to give any Key Employee or other individual the right to be selected as a Participant or to be granted an Award.
- C. The Plan shall constitute an unfunded, unsecured obligation of the Company to make bonus payments from its general assets in accordance with the provisions of the Plan. To the extent any person acquires a right to receive payments from the Company under this Plan, such rights shall be no greater than the rights of an unsecured creditor of the Company.
- D. The Plan shall be governed by and construed in accordance with the laws of the State of Delaware.
- E. The Board may amend or terminate the Plan at any time and for any reason.

**ADVANCED MICRO DEVICES, INC.****Change of Control Agreement**

Dear [Executive]:

Advanced Micro Devices, Inc. (the “Company”) considers the establishment and maintenance of a sound and vital management to be essential to protecting and enhancing the best interests of the Company and its stockholders. The Company recognizes that, as is the case with many publicly held corporations, the possibility of a change of control may exist and that the uncertainty and questions which such possibility may raise among management may result in the departure or distraction of management personnel to the detriment of the Company and its stockholders. Accordingly, the Compensation and Leadership Resources Committee of the Company’s Board of Directors (the “Board”) has determined that it is imperative to be able to rely upon management’s continuance and that appropriate steps should be taken to reinforce and encourage the continued attention and dedication of members of the Company’s management, including you, to their assigned duties without distraction in the face of the potentially disturbing circumstances arising from the possibility of a change of control of the Company.

In order to induce you to remain in the employ of the Company under such circumstances, this letter agreement (this “Agreement”) sets forth the benefits which the Company agrees will be provided to you in the event there is a “Change of Control” of the Company under the circumstances described below. (“Change of Control” is defined in Section 1.) In addition, the Company is also willing to agree to provide you the benefits described herein in consideration of your agreement to the arbitration provisions set forth in Section 15 hereof. Upon the execution of this Agreement by you and the Company, it shall supersede any prior agreements in respect of the subject matter contained herein and such prior agreements shall be of no further force or effect.

1. **Change of Control.** For purposes of this Agreement, a “Change of Control” shall mean any of the following events:

(a) any “person” (as such term is used in Sections 13(d) and 14(d) of the Securities Exchange Act of 1934, as amended (the “Exchange Act”)) is or becomes the beneficial owner (as defined in Rule 13d-3 under the Exchange Act), directly or indirectly, of securities of the Company (not including in the securities beneficially owned by such person any securities acquired directly from the Company or any corporation, partnership, joint venture or other entity in which the Company holds an equity, profit or voting interest of thirty percent (30%) or more) representing more than 50% of either the then outstanding shares of the common stock of the Company (“Common Stock”) or the combined voting power of the Company’s then outstanding voting securities;

(b) during any period of two consecutive years, individuals who at the beginning of such period constituted the Board and any new director (other than a director designated by a person who has entered into an agreement or arrangement with the Company to effect a transaction described in clause (a) or (b) of this Section 1) whose appointment, election or nomination for election by the Company’s stockholders, was approved by a vote of at least two-thirds (2/3) of the directors then still in office who either were directors at the beginning of the period or whose appointment, election or nomination for election was previously so approved, cease for any reason to constitute a majority of the Board;

(c) there is consummated a merger or consolidation of the Company or subsidiary thereof with or into any other corporation, other than a merger or consolidation which would

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result in the holders of the voting securities of the Company outstanding immediately prior thereto holding securities which represent immediately after such merger or consolidation more than 50% of the combined voting power of the voting securities of either the Company or the other entity which survives such merger or consolidation or the parent of the entity which survives such merger or consolidation; or

(d) the stockholders of the Company approve a plan of complete liquidation of the Company or there is consummated the sale or disposition by the Company of all or substantially all of the Company's assets, other than a sale or disposition by the Company of all or substantially all of the Company's assets to an entity, at least 80% of the combined voting power of the voting securities of which are owned by persons in substantially the same proportions as their ownership of the Company immediately prior to such sale.

Notwithstanding the foregoing: (y) no "Change of Control" shall be deemed to have occurred if there is consummated any transaction or series of integrated transactions immediately following which the record holders of the Common Stock of the Company or the voting power of the voting securities of the Company immediately prior to such transaction or series of transactions continue to have substantially the same proportionate ownership in an entity which owns all or substantially all of the assets of the Company immediately prior to such transaction or series of transactions and (z) "Change of Control" shall exclude the acquisition of securities representing more than 20% of either the then outstanding shares of the Common Stock of the Company or the combined voting power of the Company's then outstanding voting securities by the Company or any of its wholly owned subsidiaries, or any trustee or other fiduciary holding securities of the Company under an employee benefit plan now or hereafter established by the Company.

2. **Term.** This Agreement shall become effective immediately on the delivery of fully executed copies to both parties, and shall continue until canceled pursuant to the notice of either party, or if earlier, the date all payments or benefits required to be made or provided under this Agreement have been made. Either party hereto may provide written notice to the other of cancellation of this Agreement, to take effect on the date specified in such notice, but in no event shall such cancellation take effect less than two years from the date on which notice is given. Such notice shall be furnished in accordance with Section 12 of this Agreement.

### 3. **Parachute Payments.**

(a) Notwithstanding anything contained in this Agreement to the contrary, in the event that the benefits provided by this Agreement, together with all other payments and the value of any benefits received or to be received by you (the "Payments"), constitute "parachute payments" (within the meaning of Section 280G of the Internal Revenue Code of 1986, as amended (the "Code")), and, but for this Section 3(a), would be subject to the excise tax imposed by Section 4999 of the Code (the "Excise Tax"), then the Payments shall be made to you either (i) in full or (ii) as to such lesser amount as which would result in no portion of the Payments being subject to the Excise Tax, whichever of the foregoing amounts, taking into account the applicable federal, state and local income taxes and the Excise Tax, results in the receipt by you on an after-tax basis, of the greatest amount of benefits, notwithstanding that all or some portion of the Payments may be subject to the Excise Tax. Unless you shall have given prior written notice specifying a different order to the Company to effectuate any reduction contemplated by the preceding sentence, the Company shall reduce or eliminate the Payments by first reducing or eliminating cash payments and then by reducing those payments or benefits which are not payable in cash, in each case in reverse order beginning with payments or benefits which are to be paid the farthest in time from the Determination (as hereinafter defined). Any notice given by you pursuant to the preceding sentence shall take precedence over the provisions of any other plan, arrangement or agreement governing your rights and entitlements to any benefits or compensation.

(b) Unless the Company and you otherwise agree in writing, an initial determination as to whether the Payments shall be reduced and the amount of such reduction shall be made, at the Company's expense, by an accounting firm that the Company selects (the "Accounting Firm"). The Accounting Firm shall provide its determination (the "Determination"), together with detailed supporting calculations and documentation, to the Company and you within twenty (20) days of the Date of Termination as defined in Section 4(d) below) if applicable, or such other time as requested by the Company or by you (provided you reasonably believe that any of the Payments may be subject to the Excise Tax). Within ten (10) days of the delivery of the Determination to you, you shall have the right to dispute the Determination (the "Dispute"). If there is no Dispute, the Determination shall be binding, final and conclusive upon the Company and you.

4. **Termination of Employment Following Change of Control.** If the Board has determined that a Change of Control shall have occurred, you shall be entitled to the benefits provided in Section 5 hereof upon the actual termination by the Company without Cause or "Constructive Termination" of your employment that is a "separation from service" (within the meaning of Section 409A(a)(2)(A)(i) of the Code) within two years after such Change of Control (a "Change of Control Termination"), unless such termination is by the Company for Cause.

(a) Constructive Termination. For purposes of this Agreement, "Constructive Termination" shall mean a resignation by you upon the occurrence (without your prior written consent) of any of the following: (i) a material diminution of your compensation, authority, duties or responsibilities; (ii) the Company's relocation of your principal place of employment to a facility that is more than fifty (50) miles from your current principal place of employment and (iii) a material increase in your amount of required business travel on behalf of the Company; provided, however, that you may not resign from your employment for Constructive Termination unless (A) you have provided the Company with at least 30 days prior Notice of Termination of your intent to resign for Constructive Termination (which notice must be provided within 90 days following the occurrence of the event(s) purported to constitute Constructive Termination) and (B) the Company has not remedied the alleged violation(s) within the 30-day period.

(b) Cause. For the purposes of this Agreement, the Company shall have a "Cause" to terminate your employment if you are determined by a court of law or pursuant to arbitration under Section 15 to have (i) committed a willful act of embezzlement, fraud or dishonesty which resulted in material loss, material damage or material injury to the Company or (ii) repeatedly and willfully failed or refused to perform the duties reasonably assigned to you by the Company. In such an event, you shall have no rights under this Agreement.

(c) Notice of Termination. Any termination of your employment by the Company or by you for any reason whatsoever during the term of this Agreement shall be communicated by written notice of termination to the other party hereto ("Notice of Termination").

(d) Date of Termination. "Date of Termination" shall mean the date specified in the Notice of Termination of your Change of Control Termination.

## 5. **Benefits Upon Termination Following a Change Of Control.**

(a) Amount of Benefits. The Company shall provide to you, subject to your execution and non-revocation of a unilateral waiver and release of claims agreement in the Company's customary form prior to sixty (60) days following the Change of Control Termination, each of the following benefits not more than ten business days (subject to Section 6 below) following the expiration of the revocation period in such waiver and release of claims agreement:

(1) *Severance Benefit.* The Company shall pay you a lump sum severance benefit which shall equal the sum of (A) two times your Base Compensation (as defined below), plus (B) two times your target annual bonus for the year in which you terminate. For purposes of this Section 5(a)(1), "Base Compensation" means your rate of annual salary, as in effect for the twelve-month period ending on the date six months prior to the Change of Control or on the Date of Termination, whichever is higher. Base Compensation does not include elements such as bonuses, reimbursement of interest paid on guaranteed loans, auto allowances, nor any income from equity based compensation, such as may result from the exercise of stock options or stock appreciation rights, or the receipt of restricted stock unit awards or the lapse of restrictions on such awards.

(2) *Equity Compensation.* All unvested stock options, stock appreciation rights, restricted stock units, restricted stock, and similar equity compensation awards ("Company Equity Awards") held by you at the time of your Date of Termination and that are subject to your continued service (and not subject, in whole or in part, on the achievement of performance-based or other similar vesting criteria) shall be deemed fully vested and exercisable at such Date of Termination, as applicable. With respect to any outstanding and unvested Company Equity Award (or portion thereof) that is subject to the achievement of any performance-based or other similar vesting criteria, then, unless provided otherwise in the award agreement governing the terms of such Company Equity Award, the Company Equity Award (or applicable portion thereof) shall be deemed earned, vested, and exercisable, as applicable, as to one hundred percent (100%) of the amount of the Company Equity Award (or applicable portion thereof) assuming the relevant performance criteria had been achieved at target levels for the relevant performance period(s). All vested stock options held by you as of your Date of Termination, including those deemed fully vested pursuant to this Section 5(a)(2), shall become automatically exercisable for a period of one (1) year from the Date of Termination; provided, however, in no event shall any stock option remain exercisable beyond the maximum period allowed therefor in the equity compensation plan or award agreement under which it was granted, whichever is shorter. This Agreement shall serve as an amendment to all of your outstanding Company Equity Awards as of the date hereof.

(3) *Accrued Bonus.* The Company shall pay you an amount equal to the pro rata amount of the annual bonus accrued under the Company's Annual Incentive Plan (or any successor Company plan) assuming performance at target levels for the portion of the year prior to the Date of Termination.

(4) *Financial and Tax Planning.* The Company shall reimburse you or pay directly for personal financial planning and tax planning services up to \$4,000 for twelve (12) months following the Date of Termination.

(5) *Other Benefits.* The Company shall provide for a period of twelve (12) months following the Date of Termination, health and welfare benefits at least comparable to those benefits in effect on your Date of Termination, including but not limited to medical, dental, and dependent care insurance coverage. At the Company's election, health benefits may be provided by reimbursing you for the cost of converting a group policy to individual coverage, or for the cost of COBRA premiums for the shorter of twelve (12) months or the applicable COBRA continuation period. The Company shall also pay you an amount calculated to pay any income taxes due as a result of the payment by the Company on your behalf for such health benefits. Such tax payment shall be calculated to place you in the same after-tax position as if no such income had been imposed and shall be paid to you no later than the end of the calendar year following the calendar year in which such related taxes are remitted to the appropriate tax authorities.

(b) *Other Benefits Payable.* The benefits described in subsection (a) above shall be payable in addition to, and not in lieu of, all other accrued or vested or earned but deferred compensation, rights, options or other benefits which may be owed to you following termination of your employment, irrespective of whether your termination was preceded by a Change of Control, including but not limited to accrued vacation or sick pay, amounts or benefits payable under any employment agreement or any bonus or other compensation plans, stock option plan, stock ownership plan, stock purchase plan, life insurance plan, health plan, disability plan or similar plan.

#### 6. **Section 409A.**

(a) Notwithstanding any provision to the contrary in the Agreement, all provisions of the Agreement are intended to be exempt from Section 409A of the Code, and the applicable Treasury regulations and administrative guidance issued thereunder (collectively, "Section 409A") and to the extent not so exempt, to be compliant with Section 409A, and shall be construed and administered in accordance with such intent. Any payments under the Agreement that may be excluded from Section 409A either as separation pay due to an involuntary separation from service or as a short-term deferral shall be excluded from Section 409A to the maximum extent possible. For purposes of Section 409A, each installment payment provided under this Agreement shall be treated as a separate payment. Any payments to be made under this Agreement upon your termination of employment shall only be made if such termination of employment constitutes a "separation from service" under Section 409A. Notwithstanding anything in Section 5(a) to the contrary, if the sixty (60)-day release consideration period in Section 5(a) spans two calendar years, then, to the extent required by Section 409A, any payment or benefit under the Agreement shall be paid or commence to be paid, as applicable, no earlier than January 1 of the later calendar year.

(b) To the extent that any right to reimbursement of expenses or payment of any benefit in-kind under this Agreement constitutes nonqualified deferred compensation (within the meaning of Section 409A), (i) any such expense reimbursement shall be made by the Company no later than the last day of your taxable year following the taxable year in which such expense was incurred by you, (ii) the right to reimbursement or in-kind benefits shall not be subject to liquidation or exchange for another benefit, and (iii) the amount of expenses eligible for reimbursement or in-kind benefits provided during any taxable year shall not affect the expenses eligible for reimbursement or in-kind benefits to be provided in any other taxable year.

(c) Notwithstanding any provision to the contrary in the Agreement, if you are deemed by the Company on your Date of Termination to be a “specified employee” for purposes of Section 409A, to the extent delayed commencement of any portion of the benefits to which you are entitled under this Agreement is required in order to avoid a prohibited distribution under Section 409A, such portion of your benefits shall not be provided to you prior to the date (the “Section 409A Payment Date”) that is the earlier of (i) the expiration of the six-month period measured from the date of your “separation from service” (within the meaning of Section 409A) or (ii) the date of your death. On the Section 409A Payment Date, all payments deferred pursuant to this Section 6(c) shall be paid in a lump sum to you, and any remaining payments due under the Agreement shall be paid as otherwise provided herein.

7. **Payment Obligations Absolute.** Subject to the waiver and release requirement in Section 5(a) above, the Company’s obligation to pay the benefits described herein shall be absolute and unconditional and shall not be affected by any circumstances, including, without limitation, any set-off, counterclaim, recoupment, defense or other right which the Company or any of its subsidiaries may have against you or anyone else. In the event of any dispute concerning your right to payment, the Company shall nevertheless continue to pay to you your Base Compensation (as such term is defined in Section 5) until the dispute is resolved. Any such amounts paid following your termination of employment shall be credited against the amounts otherwise due to you under this Agreement or, in the event the Company prevails, shall be repaid to the Company.

8. **Legal Fees.** The Company shall also pay forthwith upon written demand from you all legal fees and expenses reasonably incurred by you in seeking to obtain or enforce any right or benefit provided by this Agreement. In the event you do not prevail in any ensuing arbitration or litigation, the Company shall absorb its own costs, expenses, and attorneys’ fees, and you shall reimburse the Company for one-half of your costs, expenses, and attorneys’ fees.

9. **Mitigation.** You shall not be required to mitigate the amount of any payment provided for in this Agreement by seeking other employment or otherwise, nor shall the amount of any payment provided for in this Agreement be reduced or offset in any way whatsoever by any amount received by you for any reason whatsoever from another employer or otherwise after the Date of Termination.

10. **Indemnification.** For at least six years following a Change of Control, you shall continue to be indemnified under the Company’s Certificate of Incorporation and Bylaws at least to the same extent as prior to the Change of Control, and you shall be covered by the directors’ and officers’ liability insurance, the fiduciary liability insurance and the professional liability insurance policies that are the same as, or provide coverage at least equivalent to, those the Company carried prior to the Change of Control.

11. **Successors; Binding Agreement.**

(a) The Company will require any successor (whether direct or indirect, by purchase, merger, consolidation or otherwise) to all or substantially all of the business and/or assets of the Company, to expressly assume and agree to perform this Agreement in the same manner and to the same extent that the Company would be required to perform it if no such succession had taken place. Failure of the Company to obtain such agreement prior to the effectiveness of any such succession shall be a breach of this Agreement and shall entitle you to compensation from the Company in the same amount and on the same terms as you would be entitled hereunder if the Company had terminated your employment without Cause after a Change of Control, except that for purposes of implementing the foregoing, the date on which any such succession becomes effective shall be deemed the Date of Termination. As used in this Agreement, “Company” shall mean the Company as hereinabove defined and any successor to its business and/or assets as

aforesaid which executes and delivers the agreement provided for in this Section or which otherwise becomes bound by all the terms and provisions of this Agreement by operation of law.

(b) This Agreement shall terminate upon your death except that if you should die while you are entitled to receive any amounts under this Agreement but which are unpaid at your date of death, all such amounts, unless otherwise provided herein, shall be paid in accordance with the terms of this Agreement to your devisee, legatee, or other designee or, if there be no such designee, to your estate. This Agreement shall inure to the benefit of and be enforceable by your personal or legal representatives, executors, administrators, successors, heirs, distributees, devisees, and legatees.

12. **Notice.** For the purposes of this Agreement, notices and all other communications provided for in this Agreement shall be in writing and shall be deemed to have been duly given when delivered or mailed by the United States registered mail, return receipt requested, postage prepaid, addressed to the respective addresses set forth on the signature page of this Agreement, provided that all notices to the Company shall be directed to the Chairman of the Board with a copy to the Secretary of the Company, or such other address as either party may have furnished to the other in writing in accordance herewith, except that notices of change of address shall be effective only upon receipt.

13. **Amendments.** No provisions of this Agreement may be modified, waived or discharged unless such waiver, modification or discharge is agreed to in writing signed by you and the Company's Chief Executive Officer. No waiver by either party hereto at any time or any breach by the other party hereto of, or compliance with, any condition or provision of this Agreement to be performed by such other party shall be deemed a waiver of similar or dissimilar provisions or conditions at the same or at any prior or subsequent time.

14. **Validity.** The invalidity or unenforceability of any provisions of this Agreement shall not affect the validity or enforceability of any other provision of this Agreement, which shall remain in full force and effect.

15. **Arbitration.**

(a) Arbitration shall be the exclusive and final forum for settling any disagreement, dispute, controversy or claim arising out of or in any way related to (i) this Agreement or the subject matter thereof or the interpretation hereof or any arrangements relating hereto or contemplated herein or the breach, termination or invalidity hereof; or (ii) the provision of or failure to provide any other benefits upon a Change of Control pursuant to any other employment agreement, bonus or compensation plans, stock option plan, stock ownership plan, stock purchase plan, life insurance plan or similar plan or agreement with the Company and/or any of its subsidiaries as Change of Control may be defined in such other agreement or plan; or (iii) which benefits constitute "parachute payments" within the meaning of Section 280G of the Code. If this Section 15 conflicts with any provision in any such compensation or bonus plan, stock option plan, or any other similar plan or agreement, this provision requiring arbitration shall control.

(b) The arbitration shall be conducted in accordance with the Commercial Arbitration Rules (the "Arbitration Rules") of the American Arbitration Association (the "AAA").

(c) The arbitral tribunal shall consist of one arbitrator. Except as otherwise provided in Section 8, the Company shall pay all the fees, if any, and expenses of such arbitration.

(d) The arbitration shall be conducted in San Jose or in any other city in the United States of America as the parties to the dispute may designate by mutual written consent.

(e) Any decision or award of the arbitral tribunal shall be final and binding upon the parties to the arbitration proceeding. The parties hereto hereby waive to the extent permitted by law any rights to appeal or to review of such award by any court or tribunal. The parties hereto agree that the arbitral award may be enforced against the parties to the arbitration proceeding or their assets wherever the award may be entered in any court having jurisdiction thereof.

(f) The parties stipulate that discovery may be had in any such arbitration proceeding as provided in Section 1283.05 of the California Code of Civil Procedure, as may be amended or revised from time to time.

16. **Counterparts.** This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original but all of which together will constitute one and the same instrument.

17. **Withholding of Taxes.** The Company may withhold from any amounts payable under this Agreement all federal, state, city, or other taxes as shall be required pursuant to any law or government regulation or ruling.

18. **Nonassignability.** This Agreement is personal in nature and neither of the parties hereto shall, without the consent of the other, assign or transfer this Agreement or any rights or obligations hereunder, except as provided in Section 11 above. Without limiting the foregoing, your right to receive payments hereunder, shall not be assignable or transferable, whether by pledge, creation of a security interest or otherwise, other than by a transfer by will or by the laws of descent and distribution and in the event of any attempted assignment or transfer contrary to this Section the Company shall have no liability to pay any amounts so attempted to be assigned or transferred.

19. **No Right to Employment.** Nothing in this Agreement shall confer on you any right to continue in the employ of the Company, or interfere with or restrict in any way the rights of the Company, which are hereby expressly reserved, to discharge you at any time for any reason whatsoever, with or without cause.

20. **Miscellaneous.** No agreements or representations, oral or otherwise, express or implied, with respect to the subject matter hereof have been made by either party which are not set forth expressly in this Agreement. This Agreement shall not affect your rights under any pension, welfare or fringe benefit arrangements of the Company under which you are entitled to receive any benefits. The validity, interpretation, construction and performance of this Agreement shall be governed by the laws of the State of Delaware. The provisions of this Agreement, and any payment provided for hereunder, shall not reduce any amounts otherwise payable, or in any way diminish your existing rights, or rights which would accrue solely as a result of the passage of time, under any employment agreement or other contract, plan or agreement with the Company.

21. **Complete Agreement.** This Agreement sets forth the entire agreement of the parties hereto in respect of the subject matter contained herein and therein and supersedes any prior agreements, promises, covenants, arrangements, communications, representations or warranties, whether oral or written, by any officer, employee or representative of any party hereto, and any prior agreement of the parties hereto in respect of the subject matter contained herein, including without limitation, any prior severance agreements, any contrary or limiting provisions in any Company equity compensation plan. This Agreement shall not limit in any way any obligation you may have under any other agreement with or promise to the Company relating to confidentiality, proprietary rights in technology or the assignment of interests in any intellectual property.

If this letter correctly sets forth our agreement on the subject matter hereof, kindly sign and return to the Company the enclosed copy of this letter which will then constitute our agreement on this subject.

Sincerely,

ADVANCED MICRO DEVICES, INC.

By: \_\_\_\_\_  
[TITLE]

Address: 2485 Augustine Drive  
Santa Clara, California 95054

Agreed to this \_\_\_\_\_ day  
of MONTH, YEAR.

[Executive Name]

\_\_\_\_\_  
(Signature)

Address:

November 2023



**[\*\*\*] Certain information in this document has been excluded pursuant to Regulation S-K, Item 601(b)(10). Such excluded information is not material and would likely cause competitive harm to the registrant if publicly disclosed.**

## INTELLECTUAL PROPERTY CROSS-LICENSE AGREEMENT

This **Intellectual Property Cross-License Agreement** (this "**Agreement**") effective as of the Effective Date, is by and between **Advanced Micro Devices, Inc.**, a corporation organized under the laws of Delaware and having its corporate head office located at One AMD Place, Sunnyvale, California 94088 ("**AMD**") and **Broadcom Corporation**, a corporation organized under the laws of California and having its principal place of business at 5300 California Ave., Irvine, California 92617 ("**Broadcom**").

WHEREAS, Broadcom, AMD and Broadcom International Limited, a Cayman Islands entity, have entered into that certain Asset Purchase Agreement dated August 25, 2008 ("**APA**"), pursuant to which Broadcom and Broadcom International Limited purchased and assumed, and AMD sold, transferred and assigned to Broadcom and Broadcom International Limited, certain assets and liabilities of the Business;

WHEREAS, AMD desires to license to Broadcom certain intellectual property rights and technology retained by AMD and currently used by the Business to enable Broadcom to conduct the Business and exploit the Purchased Assets after the Effective Date on the terms set forth herein;

WHEREAS, Broadcom desires to license such intellectual property rights and technology from AMD to conduct the Business and exploit the Purchased Assets on the terms set forth herein;

WHEREAS, Broadcom desires to license back to AMD the intellectual property rights and technology acquired by Broadcom under the APA to enable AMD to continue, subject to AMD's non-competition obligations under the APA, to conduct certain businesses retained by AMD after the Effective Date on the terms set forth herein; and

WHEREAS, AMD desires to license such intellectual property rights and technology from Broadcom to conduct certain businesses on the terms set forth herein;

NOW, THEREFORE, in consideration of the mutual promises of the parties, and of good and valuable consideration, it is agreed by and between the parties as follows:

### 1. DEFINITIONS

For the purpose of this Agreement the following capitalized terms are defined in this Section 1 and shall have the meaning specified herein. Other terms that are capitalized but not specifically defined in this Section 1 or in the body of the Agreement shall have the meaning set forth in the APA.

1.1 **“AMD Exclusive Field”** means the design, development, distribution, marketing, manufacture, use, import, license and/or sale of any IP core, processor, integrated circuit or chipset, and Software operating thereon or in connection therewith, to the extent that any such IP core, processor, integrated circuit, chipset or Software (i) operates as [\*\*\*\*] for use in [\*\*\*\*]; or (ii) (A) is able to execute the object code of any AMD Processor, (B) substantially utilizes the instruction set of any AMD Processor, or (C) has a programmer’s model that is substantially compatible with the programmer’s model of any AMD Processor. Notwithstanding the foregoing, the “AMD Exclusive Field” does not include the design, development, distribution, marketing, manufacture, use, import, license and/or sale of any of the following: (1) Current Business Products, Past Products or Roadmap Products, (2) the other products described in the first sentence of the “Broadcom Exclusive Field” definition, (3) products [\*\*\*\*], or (4) products [\*\*\*\*].

1.2 **“AMD Technology”** has the meaning ascribed to it in the IP Core License Agreement.

1.3 **“Broadcom Exclusive Field”** means the design, development, distribution, marketing, manufacture, use, import, license and/or sale of any of the following, and the Software operating thereon or in connection therewith: (a) Current Business Products; (b) Past Products; (c) Roadmap Products; (d) products that are included in digital television devices; (e) products that are included in [\*\*\*\*] devices; (f) products that are included in [\*\*\*\*] devices such as [\*\*\*\*] devices; or (g) products [\*\*\*\*] devices, [\*\*\*\*] devices, and other [\*\*\*\*] (other than [\*\*\*\*]). Notwithstanding the foregoing, the “Broadcom Exclusive Field” does not include the design, development, distribution, marketing, manufacture, use, import, license and/or sale of any of the following: (A) all products made, sold, or marketed by AMD or its Subsidiaries as of the Effective Date, other than the Current Business Products, Past Products or Roadmap Products, (B) future products designed by AMD or its Subsidiaries (other than Current Business Products, Past Products and Roadmap Products) primarily for use in [\*\*\*\*] (and not designed primarily for the products listed in (a) through (g) above), or for use as [\*\*\*\*], (C) products for use in [\*\*\*\*], or (D) products for use as [\*\*\*\*]

1.4 **“Confidential Information”** means any and all technical and non-technical information a party provides to another party hereunder that is marked or otherwise identified at the time of disclosure as confidential or proprietary or is material that should be readily recognized as confidential by the recipient, which information may include trade secrets, know-how, firmware, designs, schematics, techniques, software code, technical documentation, specifications, Books and Records, plans or any other information relating to any research project, work in process, future development, scientific, engineering, manufacturing, marketing or business plan or financial, business or personnel matter relating to a party, its present or future products, sales, suppliers, customers, employees, investors or business, whether in written, oral, graphic or electronic form. Notwithstanding the foregoing, after the Effective Date, all Transferred Technology shall be the Confidential Information of Broadcom, Broadcom shall be deemed to be the disclosing party of such Confidential Information and AMD shall be deemed to be the recipient of such Confidential Information. All Retained Technology shall be the Confidential Information of AMD.

1.5 **“Derivative”** means a modified version of a Functional Block or of an integrated circuit comprised of a Current Business Product, Past Product or Roadmap Product.

1.6 **“Effective Date”** shall be the same date as the Closing Date.

1.7 **“Excluded Technology”** means the Technology listed on Exhibit C.

1.8 **“First Effective Filing Date”** means the earliest effective filing date in the particular country for any Patent or any application for any Patent. By way of example, it is understood that the First Effective Filing Date for a United States Patent is the earlier of (a) the actual filing date of the United States Patent application which issued into such Patent, (b) the priority date under 35 U.S.C. § 119 for such Patent, or (c) the priority date under 35 U.S.C. § 120 for such Patent.

1.9 **“Functional Block”** means an IP core or similar functional block or other component or element within, or Software in or for, a Current Business Product or Past Product or developed as of the Effective Date for incorporation in a Roadmap Product.

1.10 **“Game Consoles”** means consumer electronic devices that attach to a television and are primarily marketed for the playing of electronic games, such as, or similar to, Microsoft's Xbox 360, Sony's PlayStation 3 or Nintendo's Wii, and including portable devices that are primarily marketed for the playing of electronic games, such as Nintendo DS. “Game Console” excludes [\*\*\*\*].

1.11 **“Improvements”** means any improvements, enhancements, discoveries, developments, inventions, modifications or derivative works, whether or not patentable.

1.12 **“IP Core License Agreement”** means the certain IP Core License Agreement between the parties of even date herewith.

1.13 **“Licensable”** means that, as of the Effective Date, AMD or any of its Affiliates has the right to grant to Broadcom a license or other rights within the scope of the rights granted to Broadcom under this Agreement, subject to the scope of permissible sublicense rights granted to AMD, without such grant (a) resulting in any breach or other violation of any obligation of AMD or any of its Affiliates to any Third Party, or (b) resulting in any payment obligations of AMD to any Third Party.

1.14 **“Mobile Devices”** means battery-operated, handheld electronic personal communication devices, such as, or similar to, cellular telephones, smart phones, PDAs, or pagers, including such devices that are primarily marketed for purposes other than playing electronic games, even if such devices incorporate game-playing functionality, such as, or similar to, Apple's iPhone or Research In Motion's Blackberry.

1.15 **“PCs”** means x86 desktop, notebook or ultra-mobile personal computers.

1.16 **“PCTV Devices”** means (a) computer cards and products that both (i) tune, demodulate, process (including encoding, decoding and enhancing audio and video data), record and/or display digital and analog broadcast television signals, and provide related services such as electronic program guides, and (ii) are included in a PC, or require a PC for operation, and (b) Software operating on such computer cards and integrated circuits to the extent necessary to provide the functionality described in clause (a)(i).

1.17 **“Retained Intellectual Property Rights”** means the Intellectual Property Rights (other than trademarks and Patents) owned or Licensable by AMD or any of its Affiliates, that are not included in the Transferred Intellectual Property Rights, and that (a) are used in, necessary for or primarily related to the Business or (b) cover any of the Retained Technology. “Retained Intellectual Property Rights” do not include any of AMD's Intellectual Property Rights in or to its semiconductor manufacturing Technology.

1.18 **“Retained Patents”** means the claims of Patents owned or Licensable by AMD or any of its Affiliates (other than the Transferred Patents) that (a) without a license, would be infringed (or, with respect to patent applications, would be infringed if such patent application were to issue as a patent) by the design, development, use, manufacture, import, offer for sale, sale, maintenance, support or other disposal of any Current Business Product, Past Product or Roadmap Product or any Functional Block, including those Patents listed on Exhibit A, or (b) cover any of the Retained Technology; provided that, such Patents have a First Effective Filing Date on or before the Effective Date (including, for clarity, all continuations, continuations-in-part, divisionals, substitutions, reissues, reexaminations, and foreign counterparts that claim priority to any such Patents, regardless of when filed or issued).

1.19 **“Retained Technology”** means all Technology owned or Licensable by AMD or any of its Affiliates (other than the Transferred Technology) that is used in, necessary for or primarily related to the Business or the Past Products, any Current Business Product, Roadmap Product or any Functional Block. “Retained Technology” includes the Technology specifically listed on Exhibit B. For the avoidance of doubt, “Retained Technology” does not include, except as specifically listed on Exhibit B, (w) any of AMD’s proprietary semiconductor manufacturing Technology; (x) any of the AMD Technology licensed under the IP Core License Agreement; (y) except as licensed under the IP Core License Agreement, any IP core, processor or product that operates as a [\*\*\*\*] for use in [\*\*\*\*]; or (z) any processor core or product that (A) is able to execute the object code of any AMD Processor, (B) substantially utilizes the instruction set of any AMD Processor, (C) has a programmer’s model that is substantially compatible with the programmer’s model of any AMD Processor, or (D) is a chipset (Northbridge/Southbridge) for use with any AMD Processor.

1.20 **“Third Party”** means any person or entity other than AMD or Broadcom or any Affiliate of AMD or Broadcom.

1.21 **“Transferred Intellectual Property Rights”** means the Intellectual Property Rights (other than trademarks and Patents) transferred by AMD or its Subsidiaries to Broadcom or its Subsidiaries pursuant to the APA.

1.22 **“Transferred Patents”** means those Patents transferred by AMD or its Subsidiaries to Broadcom or its Subsidiaries pursuant to the APA.

1.23 **“Transferred Technology”** means the Technology transferred by AMD or its Subsidiaries to Broadcom or its Subsidiaries in accordance with the APA.

## 2. LICENSES

### 2.1 Licenses to Broadcom.

(a) AMD and its Affiliates hereby grant to Broadcom and its Subsidiaries a perpetual, irrevocable, non-exclusive, worldwide, fully-paid, royalty-free, non-transferable (except for certain assignments as provided in Section 9.3 (Assignment)) license under the Retained Patents, without right of sublicense, to design, develop, use, make, have made, import, export, offer to sell, sell, support, maintain and otherwise dispose of:

- (i) any Current Business Product, Past Product, Roadmap Product, Functional Block or Derivative, or

(ii) any combination of the items described in clause (i) with each other or with new or additional technology, but only to the extent of the items described in clause (i) and not to any new or additional functionality added to such items (other than Technology which Broadcom is permitted to use or develop pursuant to the IP Core License Agreement; provided, however, that use or development of such Technology is done in accordance with and remains subject to the restrictions set forth in the IP Core License Agreement) or to the remainder of any device or product in which such items may be incorporated.

For the avoidance of doubt, the restriction on sublicensing set forth above shall not be interpreted to limit the sublicense rights granted under Section 2.1(b) below; *i.e.*, if a permitted sublicensee's exercise of its permitted sublicensed rights with respect to the Retained Technology would necessarily infringe a Retained Patent(s), then Broadcom is permitted to grant a sublicense under such Retained Patents solely to the extent necessary to enable such sublicensee of such Retained Technology to exercise its permitted sublicense rights in accordance with Section 2.1(b).

(b) AMD and its Affiliates hereby grant to Broadcom and its Subsidiaries (i) under the Retained Intellectual Property Rights, and (ii) to the Retained Technology, a perpetual, irrevocable, worldwide, fully-paid, royalty-free, non-transferable (except for certain assignments as provided in Section 9.3 (Assignment)) license, with right of sublicense (but without further right of sublicense by such sublicensee except to end users of products, solely as necessary for such end users to use such products), to use, reproduce, modify, make derivative works of, distribute and otherwise exploit the Retained Technology, to design, develop, use, make, have made, import, export, offer to sell, sell, support, maintain and otherwise dispose of products and to provide services. Such license shall be (A) exclusive within the Broadcom Exclusive Field (even as to AMD and its Affiliates), effective as of the Effective Date and for three (3) years thereafter, and non-exclusive within the Broadcom Exclusive Field effective after the third (3rd) anniversary of the Effective Date, (B) non-exclusive within the AMD Exclusive Field, effective only after the third (3rd) anniversary of the Effective Date, and (C) non-exclusive in all fields, other than the Broadcom Exclusive Field and the AMD Exclusive Field, effective as of the Effective Date.

(c) The "have made" rights refer only to third party manufacturers or other service providers solely for purposes of having products designed and/or made on Broadcom's or its Subsidiaries' behalf and not to design and/or make products of their own design or products made based upon the designs of Third Parties.

(d) Broadcom shall have the exclusive right, but not the obligation, to enforce and protect the Retained Intellectual Property Rights and Retained Technology against infringement or misappropriation in the Broadcom Exclusive Field arising during the three (3) year period after the Effective Date and may bring and pursue an action to so enforce and protect such rights during or after such three (3) year period. AMD, or its Affiliate, shall join as a party to any action brought by Broadcom pursuant to such right, at Broadcom's request and at Broadcom's expense (including for all reasonable attorneys' fees and costs of AMD or AMD's Affiliates), in the event that an adverse party asserts, the court rules or other laws then applicable provide, or Broadcom determines in good faith, that a court lacks jurisdiction based on such AMD's or such Affiliate's absence as a party in such action. If Broadcom lacks standing to bring such an action in any jurisdiction, Broadcom shall have the right to direct AMD or its Affiliate to initiate legal action to enforce the Retained Intellectual Property Rights and Retained Technology, in accordance with Broadcom's reasonable instructions and AMD or such Affiliate, as applicable, shall initiate and pursue such action in accordance with Broadcom's instructions and at Broadcom's expense (including for all reasonable attorneys' fees and costs of AMD or AMD's Affiliates). Broadcom shall retain or receive all recoveries obtained by either party or their Affiliates from any action or settlement of any claim or action, brought pursuant to this Section 2.1(d). Broadcom shall indemnify and hold AMD and AMD's Affiliates harmless from

and against any liabilities, losses, damages, costs and expenses, including reasonable attorneys' fees and costs, incurred by AMD and its Affiliates, and to promptly reimburse AMD and its Affiliates for any such liabilities, losses, damages, costs and expenses, which are incurred by AMD and its Affiliates, resulting from any actions undertaken by AMD and its Affiliates requested by Broadcom pursuant to this Section 2.1(d); provided, however, that Broadcom's indemnification obligation hereunder (i) shall be subject to, and shall not supersede in any way, AMD's obligation to indemnify Broadcom pursuant to the APA and Broadcom shall have no obligation to indemnify AMD hereunder for any liability, loss, damage, cost or expense which is subject to AMD's obligation to indemnify Broadcom pursuant to the APA; and (ii) is conditioned upon: (A) AMD providing Broadcom with prompt written notice of any such liabilities, losses, damages, costs and expenses, or any Third Party claim which could give rise to such liabilities, losses, damages, costs and expenses; (B) Broadcom having sole control and authority with respect to the defense and settlement of any such claim; and (C) AMD reasonably cooperating with Broadcom in the defense of any such claim.

(e) Broadcom shall not use or hire others to use or analyze any Retained Technology that is not otherwise publicly available for the purposes of determining if any features, functions or processes provided by the Retained Technology are covered by any patents or patent applications owned by Broadcom and then use that analysis to assert patent infringement claims against AMD.

## 2.2 License to AMD.

(a) Subject to the non-competition terms in Section 5.10(a) of the APA, Broadcom and its Affiliates grant to AMD and AMD's Subsidiaries under the Transferred Patents, a perpetual, irrevocable, non-exclusive, worldwide, fully-paid, royalty-free, non-transferable (except for certain assignments as provided in Section 9.3 (Assignment)) license, without right of sublicense, to use, make, have made, import, support, maintain, offer to sell, sell, and otherwise dispose of products (other than Current Business Products, Past Products and the Roadmap Products). For the avoidance of doubt, the restriction on sublicensing set forth above shall not be interpreted to limit the sublicense rights granted under Section 2.2(b) below; *i.e.*, if a permitted sublicensee's exercise of its permitted sublicensed rights with respect to the Transferred Technology would necessarily infringe a Transferred Patent(s), then AMD is permitted to grant a sublicense under such Transferred Patents solely to the extent necessary to enable such sublicensee of such Transferred Technology to exercise its permitted sublicense rights in accordance with Section 2.2(b).

(b) Subject to the non-competition terms in Section 5.10(a) of the APA, Broadcom and its Affiliates grant to AMD and AMD's Subsidiaries (i) under the Transferred Intellectual Property Rights (other than any Transferred Intellectual Property Rights covering the Excluded Technology), and (ii) to the Transferred Technology (other than the Excluded Technology), a perpetual, irrevocable, non-exclusive, worldwide, fully-paid, royalty-free, non-transferable (except for certain assignments as provided in Section 9.3 (Assignment)) license, with right of sublicense (in accordance with Section 2.2(e)), to use, reproduce, modify, make derivative works of, and distribute the Transferred Technology (other than the Excluded Technology), to design, develop, use, make, have made, import, export, offer to sell, sell, support, maintain and otherwise dispose of products and to provide services, in each case other than in the Broadcom Exclusive Field.

(c) The "have made" rights refer only to third party manufacturers or other service providers solely for purposes of having products designed or made on AMD's or its Subsidiaries' behalf and not to design or make products of their own design or products made based upon the designs of Third Parties.

(d) AMD shall not use or hire others to use or analyze any Transferred Technology that is not otherwise publicly available for the purposes of determining if any features, functions or processes provided by the Transferred Technology are covered by any patents or patent applications owned by AMD and then use that analysis to assert patent infringement claims against Broadcom.

(e) AMD and its Subsidiaries may only sublicense any of the rights granted under the Transferred Intellectual Property Rights and to the Transferred Technology to the following (without any further right of sublicense):

(i) any independent contractor or other Third Party service provider, solely as necessary to enable such Third Party to provide services to or on behalf of AMD or its Sublicensee, as applicable;

(ii) AMD's and its Subsidiaries' OEMs and other customers solely as necessary to (A) facilitate collaborative development with AMD or such AMD Subsidiary, as applicable, of products that incorporate AMD products or components that AMD or its Subsidiaries are commercializing or intending to commercialize, as well as the manufacture, sale and support of any such resulting products; (B) fulfill technology escrow rights to the extent required to secure business with customers and consistent with escrow requirements applied to the Intellectual Property Rights and Technology of AMD or its Subsidiary in the same products or technology, if applicable; (C) fulfill second source rights to customers with respect to a single Third Party for each such customer or product (in non-Source Code form and only for products which are created by AMD or such Subsidiary using the Transferred Technology as permitted under this Agreement), solely to the extent required to secure business with such customer and consistent with the second source requirements applied to the other products of AMD or such Subsidiary, if applicable, sold to such customer; or

(iii) end users of products, solely as necessary for such end users to use such products.

2.3 **No Other Licenses and Rights.** Except as expressly provided in this Section 2, no other license or right is granted to the parties under this Agreement, whether expressly or by implication, estoppel, statute or otherwise.

### 3. OWNERSHIP

3.1 **By AMD.** As between the parties, AMD will retain all right, title and interest, including all Intellectual Property Rights, in and to the Retained Technology, in and to any Improvements to the Retained Technology made by or for AMD or its Affiliates, and in and to any Improvements to the Transferred Technology made by or for AMD or its Subsidiaries in the exercise of the licenses granted to AMD and its Subsidiaries hereunder, subject only to (a) the ownership of Broadcom and its Affiliates in the underlying Transferred Technology, Transferred Patents and Transferred Intellectual Property Rights, (b) the licenses granted hereunder and (c) the non-competition terms agreed to by AMD pursuant to the APA. Unless otherwise agreed by the parties in writing, AMD shall have no obligation to disclose or license to Broadcom any Improvements to the Transferred Technology or to the Retained Technology, or to any Intellectual Property Rights in, or to any Improvements to, the Transferred Technology or the Retained Technology, made by or for AMD or its Affiliates.

3.2 **By Broadcom.** As between the parties, Broadcom will retain all right, title and interest, including all Intellectual Property Rights, in and to the Transferred Technology, in and to any Improvements to the Transferred Technology made by or for Broadcom or its Affiliates, and in and to any Improvements to any of the Retained Technology hereunder made by or for Broadcom or its Subsidiaries in the exercise of the licenses granted to Broadcom and its Subsidiaries hereunder, subject only to (a) the ownership of AMD and its Affiliates in the underlying Retained Technology, Retained Patents and Retained Intellectual Property Rights and (b) the licenses granted hereunder. Unless otherwise agreed by the parties in writing, Broadcom has no obligation to disclose or license to AMD any Improvements to the Transferred Technology or to the Retained Technology, or to any Intellectual Property Rights in, or to any Improvements to, the Transferred Technology or the Retained Technology, made by or for Broadcom or its Affiliates.

#### 4. DISCLAIMER

4.1 **Disclaimer of Warranties.** EXCEPT AS EXPRESSLY SET FORTH IN THE APA, (a) THE PARTIES ACKNOWLEDGE AND AGREE THAT ALL TECHNOLOGY PROVIDED HEREUNDER, AND ALL INTELLECTUAL PROPERTY RIGHTS LICENSED HEREUNDER, ARE PROVIDED “AS IS,” WITHOUT ANY WARRANTY OF ANY KIND; AND (b) WITHOUT LIMITING THE FOREGOING, NEITHER PARTY MAKES ANY REPRESENTATION OR WARRANTY REGARDING THE TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHTS LICENSED UNDER THIS AGREEMENT, AND EACH HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES OF ANY KIND, WHETHER EXPRESS, IMPLIED OR STATUTORY, REGARDING THE INTELLECTUAL PROPERTY AND TECHNOLOGY LICENSED HEREUNDER, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, ENFORCEABILITY OR NON-INFRINGEMENT.

#### 5. TERM; TERMINATION

5.1 **Term.** The term of this Agreement is perpetual, with the licenses surviving as long as the applicable Intellectual Property Rights exist.

5.2 **Termination.** This Agreement may only be terminated by express mutual written agreement of the parties in the form of an amendment to this Agreement.

#### 6. ADDITIONAL OBLIGATIONS

##### 6.1 *Additional Obligations with Regard to Patents.*

(a) Broadcom agrees, on behalf of itself and its Affiliates, to make reasonably available to AMD and its Affiliates, or their counsel, on reasonable advance written notice during normal business hours, inventors and other persons previously employed by AMD or its Affiliates, who are Continuing Employees and are employed by Broadcom or its Affiliates at the time of the request, for interviews or testimony to assist in good faith in further prosecution, maintenance, or litigation of all Retained Patents and Retained Intellectual Property Rights, including the signing of documents related thereto. Any reasonable attorneys’ fees and costs associated with such assistance shall be borne by AMD, expressly excluding the value of the time of such personnel for maintenance or prosecution, but, with respect to litigation, including the value of the time of such personnel, as well as reasonable attorneys’ fees associated with such personnel’s participation in litigation on behalf of AMD, as agreed upon in advance in writing by AMD and Broadcom in good faith.



(b) AMD agrees, on behalf of itself and its Affiliates, to make reasonably available to Broadcom and its Affiliates, or their counsel, on reasonable advance written notice during normal business hours, inventors and other persons employed by AMD or its Affiliates at the time of the request, for interviews or testimony to assist in good faith in further prosecution, maintenance, or litigation of all Transferred Patents and Transferred Intellectual Property Rights, including the signing of documents related thereto. Any reasonable attorneys' fees and costs associated with such assistance shall be borne by Broadcom, expressly excluding the value of the time of such personnel for maintenance or prosecution, but, with respect to litigation, including the value of the time of such personnel, as well as reasonable attorneys' fees associated with such personnel's participation in litigation on behalf of Broadcom, as agreed upon in advance in writing by AMD and Broadcom in good faith.

6.2 **No Other Obligation.** Except as expressly set forth in Section 2.1(d), neither party shall have any obligation hereunder to institute or maintain any action or suit against third parties for infringement or misappropriation of any Intellectual Property Right in or to any Technology licensed to the other party hereunder, or to defend any action or suit brought by a Third Party that challenges or concerns the validity of any of such rights or that claims that any Technology licensed to the other party hereunder infringes or constitutes a misappropriation of any Intellectual Property Right of any Third Party.

6.3 **No Obligation to Obtain or Maintain Rights in Technology.** Except as otherwise set forth herein, in the APA or any agreement or document referenced in the APA, no party shall be obligated under this Agreement to provide the other parties with any technical assistance or to furnish the other parties with, or obtain, any documents, materials or other information or Technology.

6.4 **No Obligation to Obtain Or Maintain Patents.** No party is obligated to (i) file any patent application, or to secure any patent or patent rights or (ii) to maintain any patent in force.

## 7. CONFIDENTIALITY

7.1 **Restrictions on Use of Confidential Information.** All Confidential Information shall not be distributed, disclosed, or disseminated in any way or form by the receiving party to anyone except its own, and its Affiliates' and permitted sublicensees', employees, contractors, customers and business partners who have a reasonable need to know such Confidential Information and who have been advised of the confidential nature and required to observe the terms and conditions hereof or of terms substantially similar to these confidentiality provisions; nor shall Confidential Information be used by the receiving party for its own purpose, except for the purposes of exercising its rights or fulfilling its obligations under this Agreement or any permitted sublicense. The recipient shall treat all of the disclosing party's Confidential Information with the same degree of care as the recipient accords to recipient's own Confidential Information, but not less than reasonable care. The recipient shall immediately give notice to the disclosing party of any unauthorized use or disclosure of disclosing party's Confidential Information. The recipient shall assist the disclosing party in remedying any such unauthorized use or disclosure of the disclosing party's Confidential Information. AMD agrees that during the three (3) year period in which Broadcom is granted an exclusive license under Section 2.1(b) above, AMD and its Affiliates will not publicly disclose the Retained Technology in a manner that would result in a loss of trade secret status for the material trade secret aspects of the [\*\*\*\*] as of the Effective Date for Broadcom's use of the [\*\*\*\*] in accordance with the license rights Broadcom receives to such Retained Technology under Section 2.1(b). Notwithstanding the foregoing, AMD or its Affiliates may publish a non-confidential programming guide that details registers and microcode APIs applicable to the [\*\*\*\*] so that developers may develop drivers and other applicable software to configure their devices and access those of AMD's or its

Affiliates' products, the design, development, use, manufacture, having manufactured, importation, export, offering to sell, sale, support, maintenance or other disposal of which do not violate any exclusive license granted to Broadcom hereunder.

7.2 **Exceptions.** The obligation not to disclose information under Section 7.1 hereof shall not apply to information that, as of the Effective Date or thereafter, (a) was in the public domain or otherwise publicly known at or subsequent to the time such Confidential Information was communicated to recipient by the disclosing party through no fault of the recipient; (b) other than with respect to Transferred Technology, was rightfully in the recipient's possession free of any obligation of confidence at or subsequent to the time such Confidential Information was communicated to the recipient by the disclosing party; (c) was developed by employees or agents of the recipient independently of and without reference to any of the disclosing party's Confidential Information; or (d) was communicated by the disclosing party to a Third Party free of any obligation of confidence.

7.3 **Confidentiality of Agreement and Permitted Disclosures.** Except as expressly provided herein, each party agrees that the terms and conditions of this Agreement shall be treated as confidential and that neither party will disclose the terms or conditions of this Agreement to any third party without the prior written consent of the other party, provided, however, that each party may disclose the terms and conditions of this Agreement and the other party's Confidential Information to the extent necessary: (a) as required by any court or other governmental body; (b) as otherwise required by law (including the rules and regulations of any stock exchange) or expressly permitted under this Agreement; (c) in confidence to such party's legal counsel, accountants, and other professional advisors; (d) in confidence, to banks, investors and other financing sources and their advisors; (e) in connection with the enforcement of this Agreement or exercise of rights under this Agreement; or (f) in confidence, in connection with an actual or prospective merger or acquisition or similar transaction. With respect to disclosure required by a court, governmental order or otherwise required by law, the party required to so disclose shall (i) to the extent not prohibited, provide prior notification of such impending disclosure to the other party, (ii) use all reasonable efforts to preserve the confidentiality of the terms of this Agreement in complying with such required disclosure, including obtaining a protective order to the extent reasonably possible, and (iii) not be relieved of its obligation of confidentiality and non-use of such disclosed information for any other purpose. Further, all other individuals and/or entities receiving Confidential Information pursuant to subsections (c) through (f) must have signed a written non-disclosure agreement protecting the Confidential Information in accordance with terms in this Agreement, or with respect to attorneys and other professional advisors, be bound by ethical obligations to protect the Confidential Information.

7.4 **Duration.** The obligations of the parties set forth in this Section 7 with respect to the protection of Confidential Information shall remain in effect for five (5) years after (a) the Effective Date, with respect to Confidential Information of one party that is known to or in the possession of the other party as of the Effective Date, or (b) the date of disclosure, with respect to Confidential Information that is disclosed by the one party to the other party after the Effective Date, provided, however, that the obligations of the parties set forth in this Section 7 with respect to the protection of Confidential Information that is Source Code or that otherwise constitutes or is treated as of the Effective Date by the disclosing party as a trade secret shall remain in effect perpetually, subject only to the exceptions in Section 7.2.

## 8. LIMITATION OF LIABILITY

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, AND EXCEPT FOR BREACHES OF CONFIDENTIALITY OBLIGATIONS, OR BREACHES OF LICENSE OR FIELD RESTRICTIONS, IN NO EVENT SHALL A PARTY BE LIABLE UNDER THIS AGREEMENT TO THE OTHER PARTY OR TO ANY PARTY CLAIMING THROUGH OR UNDER ANOTHER PARTY, FOR ANY LOST PROFITS, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION IN CONTRACT, TORT (INCLUDING STRICT LIABILITY), BASED ON A WARRANTY, OR OTHERWISE, ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT, EVEN IF SUCH PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 9. MISCELLANEOUS PROVISIONS

9.1 **Governing Law; Venue.** This Agreement and any disputes hereunder shall be governed by and construed in accordance with the domestic laws of the State of California, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of California or any other jurisdiction) that would cause the application of laws of any jurisdiction other than those of the State of California. Any dispute, claim or controversy arising out of this Agreement shall be submitted to the exclusive jurisdiction and venue in the federal and state courts located in and serving Santa Clara County, California. Notwithstanding the foregoing, in the event that any dispute, claim or controversy arising out of this Agreement also involves a dispute, claim or controversy arising out of the APA, the governing law and dispute resolution provisions of the APA shall govern all such disputes, claims and controversies.

9.2 **Notices.** All notices and other communications hereunder shall be in writing and shall be deemed to have been duly given when delivered in person, by telecopy with answer back, by express or overnight mail delivered by a nationally recognized air courier (delivery charges prepaid), by registered or certified mail (postage prepaid, return receipt requested) or by e-mail with receipt confirmed by return e-mail to the respective parties as follows:

if to AMD:

Advanced Micro Devices, Inc.  
7171 Southwest Parkway  
Austin, Texas 78735  
Attention: General Counsel  
Fax: (512) 602-4999

if to Broadcom:

Broadcom Corporation  
5300 California Ave.  
Irvine, California 92617  
Attention: General Counsel  
Fax: (949) 926-9244

or to such other address as the party to whom notice is given may have previously furnished to the other in writing in the manner set forth above. Any notice or communication delivered in person shall be deemed effective on delivery. Any notice or communication sent by e-mail, telecopy or by air courier shall be deemed effective on the first Business Day following the day on which such notice or communication was sent. Any notice or communication sent by

registered or certified mail shall be deemed effective on the third Business Day following the day on which such notice or communication was mailed.

9.3 **Assignment.** In addition to the sublicense rights enumerated in Section 2.1 and Section 2.2, in the event of a sale of any portion of the business of either party that utilizes the license granted hereby, either party may grant sublicenses to the purchaser of such portion of the business (including as to AMD, AMD's handheld business unit) to be used by such purchaser solely in connection with the business sold to the purchaser and not for any other business. No party may, directly or indirectly, in whole or in part, whether voluntarily or involuntarily or by operation of law or otherwise, assign or transfer this Agreement and the rights granted to it hereunder without the other party's prior written consent, which consent may be granted or refused at the other party's sole discretion. Notwithstanding the foregoing, either party may assign this Agreement and the rights granted to it hereunder, subject to its obligations, to a successor in interest, without the consent of the other party, upon any merger, acquisition, reorganization, change of control, or sale of all or substantially all of the assets or business of such party or the sale of all or substantially all of the assets or the business related to the Intellectual Property Rights and Technology licensed to such party under this Agreement, to be used by the successor solely in connection with the business sold to the successor and not for any other business. Any assignment in violation of this Section shall be null and void from the beginning, and shall be deemed a material breach of this Agreement. AMD shall not assign, transfer or otherwise divest any right, title or interest in or to Retained Technology, Retained Intellectual Property Rights or Retained Patents unless (a) such assignment, transfer or other divestiture is subject to all of the rights granted to Broadcom under this Agreement, and (b) the Person(s) to whom such right, title or interest is transferred is informed in writing, on or before the effectiveness of such assignment, transfer or divestiture, of the rights granted to Broadcom under this Agreement.

9.4 **Relationship Between Parties.** Broadcom and AMD shall at all times and for all purposes be deemed to be independent contractors and neither party, its Affiliates, nor either party's or its Affiliates' employees, representatives, subcontractors or agents, shall have the right or power to bind the other party. This Agreement shall not itself create or be deemed to create a joint venture, partnership or similar association between Broadcom and AMD or either party's or its Affiliates' employees, representatives, subcontractors or agents.

9.5 **Third Party Beneficiaries.** The terms and provisions of this Agreement are intended solely for the benefit of Broadcom and its Subsidiaries, on the one hand, and AMD and its Subsidiaries, on the other hand. It is not the intention of the parties to confer third-party beneficiary rights upon any other person or entity, and this Agreement does not (shall not be construed to) confer any right or cause of action in, upon or on behalf of any other person or entity, and no person or entity (including any of employee or former employee of any of the parties) other than Broadcom or its Subsidiaries and AMD or its Subsidiaries shall be entitled to rely on any provision of this Agreement in any action proceeding, hearing or other forum.

9.6 **Severability.** In the event that any clause, sub-clause or other provision contained in this Agreement shall be determined by any competent authority to be invalid, unlawful or unenforceable to any extent, such clause, sub-clause or other provision shall to that extent be severed from the remaining clauses and provisions, or the remaining part of the clause in question, which shall continue to be valid and enforceable to the fullest extent permitted by law.

9.7 **No Waiver; Remedies Cumulative.** Failure or neglect by a party to enforce at any time any of the provisions hereof shall not be construed nor shall be deemed to be a waiver of such party's rights hereunder nor in any way affect the validity of the whole or any part of this Agreement nor prejudice such party's rights to take subsequent action. All rights and remedies conferred under this Agreement or by any other instrument or law shall be cumulative and may be exercised singularly or concurrently.

9.8 **Amendment.** Any term of this Agreement may be amended, modified, rescinded, canceled or waived, in whole or in part, only by a written instrument signed by each of the parties' authorized representatives or their respective permitted successors and assigns. Any amendment or waiver effected in accordance with this Section shall be binding upon the parties and their respective successors and assigns.

9.9 **Counterparts.** This Agreement may be executed in two or more counterparts, all of which, taken together, shall be considered to be one and the same instrument.

9.10 **Headings; Construction.** The headings to the clauses, sub-clauses and parts of this Agreement are inserted for convenience of reference only and are not intended to be part of or to affect the meaning or interpretation of this Agreement. The terms "this Agreement," "hereof," "hereunder" and any similar expressions refer to this Agreement and not to any particular Section or other portion hereof. The parties hereto agree that any rule of construction to the effect that ambiguities are to be resolved against the drafting party will not be applied in the construction or interpretation of this Agreement. As used in this Agreement, the words "include" and "including," and variations thereof, will be deemed to be followed by the words "without limitation" and "discretion" means sole discretion.

9.11 **Entire Agreement.** With the exception of the APA and the Ancillary Agreements, this Agreement (including its Exhibits, each of which are incorporated herein by this reference) supersedes any arrangements, understandings, promises or agreements made or existing between the parties hereto prior to or simultaneously with this Agreement with respect to the subject matter hereof and thereof and constitutes the entire understanding between the parties hereto with respect to the subject matter hereof, except for the Project Addendum and Exclusivity Agreement, which shall continue as set forth in Section 5.2 of the APA.

9.12 **Statement of Intent With Respect to Bankruptcy.** Each party's rights under this Agreement are perpetual, irrevocable, and nonexecutory, notwithstanding any other provision of this Agreement or any other contract, and to the maximum extent permitted by applicable law. In the event of the commencement of a bankruptcy proceeding by or against a party, the license grant to the other party in Article 2 shall continue in full force and effect. Under no circumstances shall the other party's exercise of the rights granted to it in Article 2 ever be construed as an infringement of the licensor party's rights in the Retained Patents, the Retained Intellectual Property Rights, the Retained Technology, the Transferred Patents, the Transferred Intellectual Property Rights or the Transferred Technology, as applicable. In the event that a bankruptcy court or other court of competent jurisdiction ever determines by final judgment that this Agreement is executory, despite every intention and effort by the parties to negotiate and document nonexecutory rights for the other party, and without implying any acceptance of the rejected concept that it is legally impossible to create such a nonexecutory license for Intellectual Property Rights or Technology, all rights and licenses granted under or pursuant to this Agreement are, and shall otherwise be deemed to be, for purposes of Section 365(n) of the U.S. Bankruptcy Code, licenses of rights to "intellectual property" as defined under Section 101 of the U.S. Bankruptcy Code and the APA is an agreement "supplemental to" this license. Furthermore, in such an event, the parties agree that each party, as a licensee of rights under this Agreement, shall retain and may fully exercise all of its rights and elections under the U.S. Bankruptcy Code and other applicable law, including any right by such party to specific

performance of this Agreement, since each party acknowledges and agrees that the Retained Patents, Retained Intellectual Property Rights, Retained Technology, Transferred Patents, Transferred Intellectual Property Rights and Transferred Technology are unique and that rejection of the license will cause the other party irreparable harm for which its legal remedies are inadequate; provided, however, nothing herein shall be deemed to constitute a present exercise of such rights and elections.

9.13 **Export.** In recognition of U.S. and non-U.S. export control laws and regulations, each party agrees that it will not export, or transfer for the purpose of re-export, any product, technical data received hereunder or any product produced by use of such technical data, including processes and services, (each, an “**Exported Product**”), in violation of any U.S. or non-US regulation, treaty, executive order, law, statute, amendment or supplement thereto. Further, neither party will export an Exported Product to any prohibited or embargoed country or to any denied, blocked, or designated person or entity as mentioned in any such U.S. or non-US regulation, treaty, executive order, law, statute, amendment or supplement thereto.

*[Balance of page intentionally left blank.]*

IN WITNESS WHEREOF, the parties have signed this Intellectual Property Cross-License Agreement effective as of the Effective Date.

**ADVANCED MICRO DEVICES, INC.**

By: /s/ Harry A. Wolin  
Name: Harry A. Wolin  
Title: Sr. Vice President, General Counsel & Secretary

**SIGNATURE PAGE TO IP CROSS LICENSE**

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**BROADCOM CORPORATION**

By: /s/ Scott A. McGregor  
Name: Scott A. McGregor  
Title: President and Chief Executive Officer

**SIGNATURE PAGE TO IP CROSS LICENSE**

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**EXHIBIT A**  
**LIST OF MATERIAL RETAINED PATENTS**

<b>Title</b>	<b>Country</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Publication / Patent No.</b>	<b>Publication / Issue Date</b>
[***]	[***]	[***]	[***]	[***]	[***]

A-1

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**EXHIBIT B**  
**LIST OF MATERIAL RETAINED TECHNOLOGY**

[\*\*\*]

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**EXHIBIT C**  
**EXCLUDED TECHNOLOGY**

[\*\*\*]

**\*\*\*] Certain information in this document has been excluded pursuant to Regulation S-K, Item 601(b)(10). Such excluded information is not material and would likely cause competitive harm to the registrant if publicly disclosed.**

### IP CORE LICENSE AGREEMENT

**THIS IP CORE LICENSE AGREEMENT** (this “**Agreement**”), effective as of the Effective Date, is by and between **Advanced Micro Devices, Inc.**, a corporation organized under the laws of Delaware and having its corporate head office located at One AMD Place, Sunnyvale, CA 94088 (“**AMD**”) and **Broadcom Corporation**, a corporation organized under the laws of California and having its principal place of business at 5300 California Ave., Irvine, CA 92617 (“**Broadcom**”).

### WITNESSETH:

**WHEREAS**, Broadcom, AMD and Broadcom International Limited, a Cayman Islands entity, have entered into that certain Asset Purchase Agreement dated August 25, 2008 (“**APA**”), pursuant to which Broadcom purchased and assumed, and AMD sold, transferred and assigned to Broadcom and Broadcom International Limited, certain assets and liabilities of the Business;

**WHEREAS**, AMD, among other things, designs, develops and markets certain advanced graphics, video and multimedia processors and licenses graphics core designs, and related software, that are retained by AMD and that are not otherwise licensed to Broadcom under the terms of the IP Cross License;

**WHEREAS**, Broadcom desires to license such AMD graphics cores and software technology for use within the Broadcom Field, and AMD is willing to license such technology to Broadcom, on the terms and conditions set forth in this Agreement;

**NOW THEREFORE**, in consideration of the mutual promises of the parties, and of good and valuable consideration, it is agreed by and between the parties as follows:

#### 1. DEFINITIONS.

1.1 **Definitions.** For the purpose of this Agreement the following capitalized terms are defined in this Section 1.1 and shall have the meaning specified herein. Other terms that are capitalized but not specifically defined in this Section 1.1 or in the body of the Agreement shall have the meaning set forth in the APA or the IP Cross License.

(a) “**AMD Intellectual Property Rights**” means the Intellectual Property Rights (other than trademarks) owned or Licensable by AMD or any of its Affiliates, that are not included in the Purchased Intellectual Property Rights, and that cover any of the AMD Technology. “AMD Intellectual Property Rights” do not include any of AMD’s Intellectual Property Rights in or to its semiconductor manufacturing Technology.

(b) “**AMD Exclusive Field**” means the design, development, distribution, marketing, manufacture, use, import, license and/or sale of any IP core, processor, integrated circuit or chipset, and Software operating thereon or in connection therewith, to the extent that any such IP core, processor, integrated circuit, chipset or Software (i) operates as [\*\*\*\*] for use in [\*\*\*\*]; (ii) (A) is able to execute the object code of any AMD Processor, (B) substantially utilizes the instruction set of any AMD Processor, or (C) has a programmer’s model that is substantially compatible with the programmer’s model of any AMD Processor. Notwithstanding the foregoing, the “AMD Exclusive Field” does not include the design, development, distribution, marketing, manufacture, use, import, license and/or sale of any of the following: (1) Current Business Products, Past Products or Roadmap Products, (2) the other products described in the “Broadcom Exclusive Field” definition in the IP Cross License, or (3) products for use as [\*\*\*\*].

(c) “**AMD Technology**” means the Technology expressly identified on Exhibit A, including the Licensed Cores, the GPG Software and the Licensed Software.

(d) “**Broadcom Owned Improvements**” means the Improvements made by or for Broadcom or its Subsidiaries to the AMD Technology.

(e) “**Broadcom Field**” means all fields other than the AMD Exclusive Field, except that with regard to products for use as [\*\*\*\*], the “Broadcom Exclusive Field” shall include only such [\*\*\*\*] that are derived through the process of embedding the applicable Licensed Core into Broadcom Products (as defined in Section 3.3 below) designed and marketed for purposes other than for inclusion in [\*\*\*\*], but that may thereafter be sold for use in [\*\*\*\*] by altering the input/output functionality of such Broadcom Product without other further changes to customize such Broadcom Products for use in [\*\*\*\*].

(f) “**Confidential Information**” means any and all technical and non-technical information a party provides to another party hereunder that is marked or otherwise identified at the time of disclosure as confidential or proprietary or is material that should be readily recognized as confidential by the recipient, including trade secrets, know-how, firmware, designs, schematics, techniques, software code, technical documentation, specifications, plans or any other information relating to any research project, work in process, future development, scientific, engineering, manufacturing, marketing or business plan or financial or personnel matter relating to a party, its present or future products, sales, suppliers, customers, employees, investors or business, whether in written, oral, graphic or electronic form. All Broadcom Owned Improvements shall be the Confidential Information of Broadcom. All AMD Technology and Improvements to AMD Technology (other than Broadcom Owned Improvements) shall be the Confidential Information of AMD.

(g) “**Derivative**” means a modified version of a Licensed Core.

(h) “**Effective Date**” shall be the same date as the Closing Date.

(i) “**First Effective Filing Date**” means the earliest effective filing date in the particular country for any Patent or any application for any Patent. By way of example, it is understood that the First Effective Filing Date for a United States Patent is the earlier of (a) the actual filing date of the United States Patent application which issued into such Patent, (b) the priority date under 35 U.S.C. § 119 for such Patent, or (c) the priority date under 35 U.S.C. § 120 for such Patent.

(j) “**GPG Software**” means the AMD Technology described as a “[\*\*\*\*]” in Exhibit A.

(k) “**Improvements**” means any improvements, enhancements, discoveries, developments, inventions, modifications or derivative works, whether or not patentable.

(l) “**IP Cross License**” means the certain Intellectual Property Cross License Agreement between the parties of even date herewith.

(m) “**Licensable**” means that, as of the Effective Date, AMD or any of its Affiliates has the right to grant to Broadcom a license or other rights within the scope of the rights granted to Broadcom under this Agreement, subject to the scope of permissible sublicense rights granted to AMD, without such grant (a) resulting in any breach or other violation of any obligation of AMD or any of its Affiliates to any Third Party (who is not an AMD Affiliate), or (b) resulting in any payment obligations of AMD to any Third Party (who is not an AMD Affiliate).

(n) “**Licensed Core**” means each AMD graphics processor core specified in Exhibit A, including (i) all RTL with respect thereto and all Licensed Software and GPG Software described in Exhibit A referencing such Licensed Cores, (ii) the Improvements to the [\*\*\*\*] to complete integration for the [\*\*\*\*] product (each according to AMD’s current classifications) thereto that AMD provides to Broadcom under the [\*\*\*\*] support statement of work to the Transition Services Agreement, and (iii) the deliverables with respect to the [\*\*\*\*] core (formerly known as the [\*\*\*\*] core) that AMD provides to Broadcom pursuant to a letter agreement among the parties with respect to such deliverables, dated on or about the signing date of the APA.

(o) “**Licensed Software**” means the driver code, sample code, tools, software development kits and related documentation described in Exhibit A, but not including the GPG Software.

(p) “**Open Source Software**” has the meaning ascribed to it in the APA; provided, however, that Open Source Software shall, for purposes of this Agreement, exclude the AMD Technology, Purchased Technology and Retained Technology.

(q) “**Third Party**” means any person or entity other than AMD or Broadcom or any Subsidiary of AMD or Broadcom.

(r) “**Third Party IP**” means a claim of a patent owned by a Third Party who is not an AMD Affiliate and not Licensable by AMD or any of its Affiliates, to the extent that infringement of such claim cannot be avoided in remaining compliant with any standards issued by any public or private standards body, including optional implementations thereof, including all standards issued, promulgated or maintained by the Khronos Group (including Open VG 1.0, Open GL-ES 2.0 & Open GL-ES 1.1) and Adobe Flash.

(s) “**Transition Services Agreement**” means the certain Transition Services Agreement between the parties of even date herewith.

## 2. DELIVERY, RESPONSIBILITIES

2.1 **Delivery of AMD Technology.** AMD shall deliver the AMD Technology pursuant to the delivery terms set forth in the APA or the Transition Services Agreement, as applicable.

2.2 **Integration.** Except as otherwise agreed upon by the parties in writing in a statement of work to the Transition Services Agreement, Broadcom shall be solely responsible for porting and integrating the Licensed Core into a Broadcom Product and for the manufacture and testing of the Broadcom Products.

2.3 **Support and Maintenance.** AMD will provide certain support and maintenance services to Broadcom for the AMD Technology pursuant to a written statement of work to the Transition Services Agreement, which will also sets forth the fees and terms for such services.

## 3. LICENSE

3.1 **Licenses to Broadcom.** Subject to the terms and conditions of this Agreement, AMD and its Affiliates hereby grant to Broadcom and its Subsidiaries, under the AMD Intellectual Property Rights and in and to the AMD Technology, a perpetual, irrevocable, non-exclusive, worldwide, fully-paid, royalty-free, non-transferable (except for certain assignments as provided in Section 10.3 (Assignment)), right and license solely in the Broadcom Field and without right of sublicense except as set forth in Section 3.2:

(a) to design, develop, use, make, have made, import, export, support, and maintain:

i. any Licensed Core or Derivative solely for inclusion in Broadcom Products; but only to the extent of such items and not to any new or additional functionality in such Licensed Core or Derivative (other than Technology which Broadcom is permitted to use or develop pursuant to the IP Cross License) or to the remainder of any device or product in which such items may be incorporated; or

ii. any combination of the items described in clause (i) with each other or with new or additional technology, but only to the extent of the items described in clause (i) and not to any new or additional functionality added to such item (other than Technology which Broadcom is permitted to use or develop pursuant to the IP Cross License) or to the remainder of any device or product in which such items may be incorporated;

(b) to import, offer to sell, and sell Broadcom Products to the extent that such Broadcom Products contain the elements permitted pursuant to subsection (a) above; and

(c) under the AMD Intellectual Property Rights other than Patents, to modify and make (or have made) derivative works of the Licensed Software and GPG Software solely for use in connection with or as incorporated in Broadcom Products;

(d) to reproduce and distribute (through multiple tiers of distribution) the Licensed Software and the GPG Software, and any Improvements of the foregoing, but solely for use in connection with or as incorporated in Broadcom Products, and, with respect to the GPG Software, solely in machine-executable object code form; with the foregoing not to be interpreted as limiting the licenses granted by AMD or its Affiliates hereunder under any Patents in the AMD Intellectual Property Rights to distribute the Licensed Software, the GPG Software, or any Improvements to either of the foregoing, as permitted under this Section 3.1, nor to limit Broadcom or its Subsidiaries' right to import, offer to sell, or sell Broadcom Products; and

(e) The "have made" rights refer only to third party manufacturers or other service providers solely for purposes of having products designed or made on Broadcom's or its Subsidiaries' behalf and not to design or make products of their own design or products made based upon the designs of Third Parties.

(f) Notwithstanding any other provision in this Agreement, in no event may Broadcom or any of its Subsidiaries or sublicensees (A) combine or incorporate any AMD Technology or any Improvement to AMD Technology with any Open Source Software, or (B) intermingle or bundle any AMD Technology or Improvements to AMD Technology with Open Source Software, or (C) link Open Source Software or any libraries or routines that constitute Open Source Software or contains elements that previously used or were linked to Open Source Software or any libraries or routines that constitute Open Source Software, with AMD Technology or Improvements to AMD Technology; in each instance in a manner that would require the disclosure or distribution of the Source Code of the AMD Technology or Improvements to the AMD Technology. Further, Broadcom shall not combine or integrate the Licensed Software with any Open Source Software in such a way to subject the Licensed Software or GPG Software to Open Source Software terms in a manner that would require the disclosure or distribution of the Source Code of the AMD Technology or Improvements to the AMD Technology, without the written authorization of AMD.

(g) Broadcom shall not use or hire others to use or analyze any AMD Technology that is not otherwise publicly available for the purposes of determining if any features, functions or processes provided by the AMD Technology are covered by any patents or patent applications owned by Broadcom and then use that analysis to assert patent infringement claims against AMD.

### 3.2 Use of Third Parties.

(a) Subject to the terms and conditions of this Agreement, Broadcom and, its Subsidiaries may utilize third-party contractors ("**Contractors**") in connection with its exercise of license rights under Section 3.1; provided that the use of AMD Technology by such Contractors is solely to support Broadcom or its Subsidiaries or sublicensees in connection with Broadcom's or its Subsidiaries' rights under this Agreement and in strict compliance with the terms of this Agreement.



(b) If any third party that received deliverables or AMD Confidential Information from Broadcom pursuant to this Agreement breaches the obligations imposed on Broadcom under this Agreement with respect to such deliverables or AMD Confidential Information, Broadcom agrees to take all reasonable actions to cure such breach. If Broadcom is unable to cure such breach within ten (10) Business Days after Broadcom receives written notice of such breach from AMD, then Broadcom shall terminate the third party's right to use and possess such AMD Confidential Information and shall take all commercially reasonable actions to ensure the third party returns all AMD Confidential Information obtained from Broadcom pursuant to this Agreement in its possession.

(c) Nothing herein shall prevent Broadcom or its Subsidiaries from giving their customers access to APIs with respect to the AMD Technology or Broadcom Owned Improvements to facilitate interoperability between such customers' products and the AMD Technology or Broadcom Owned Improvements. Notwithstanding the foregoing, Broadcom's rights described in this Section 3.2(c) shall not extend to RTL or to any source code for the GPG Software.

3.3 **License Restrictions.** In addition to any other terms and conditions of this Agreement to which the licenses granted under Section 3.1 are subject, Broadcom and its Subsidiaries shall not exercise the right to make or have made products that incorporate any AMD Technology or Derivatives ("**Broadcom Products**") in a manner that circumvents the restrictions on sublicensing. Without limiting the foregoing, a Broadcom Product must incorporate hardware products or components (other than AMD Technology or Broadcom Owned Improvements) that Broadcom or its Subsidiaries have designed and are commercializing or intending to commercialize.

3.4 **Covenant not to Sue to AMD for Broadcom Owned Improvements.** Broadcom hereby covenants that Broadcom and its Subsidiaries shall not assert against AMD and its Subsidiaries, or AMD's or AMD's Subsidiaries' direct and indirect contractors or AMD's or AMD's Subsidiaries' customers for Improvements to AMD Technology made, or made on behalf of AMD by AMD subcontractors, and provided by AMD or AMD's Subsidiaries, any claim that the use, copying, sale, creation of derivative works, modification, license, making, having made or other exploitation of any Improvements made to AMD Technology by AMD or its Subsidiaries, infringes any claim of any Intellectual Property Rights owned by Broadcom or its Subsidiaries that cover Broadcom Owned Improvements.

3.5 **Reservation of Rights.** All rights in a party's Intellectual Property Rights not expressly granted or licensed hereunder are reserved to the licensing party and there are no other licenses or rights, express, statutory, by estoppel, implied or otherwise granted hereunder.

3.6 **Third Party IP.** Broadcom acknowledges and agrees that the AMD Technology may implement certain standards covered by Third Party IP. No license is granted by AMD hereunder to practice the patents of Third Party IP and Broadcom shall be solely responsible for obtaining any necessary rights or licenses from such Third Parties.

#### 4. PAYMENTS

4.1 **Fees.** There are no fees due for the licenses or services set forth in this Agreement. For any support or maintenance services, or for any development services, requested by Broadcom to be performed by AMD related to the subject matter of this Agreement, the parties will agree subject to a separate written agreement regarding any fees or payments due from Broadcom for such services.

#### 5. OWNERSHIP

5.1 **By AMD.** As between the parties, AMD will retain all right, title and interest, including all Intellectual Property Rights, in and to the AMD Technology (subject only to the licenses granted hereunder), and in and to any Improvements to the AMD Technology made by or for AMD or its Affiliates. Unless otherwise agreed by the parties in writing, AMD shall have no obligation to disclose or license to Broadcom any Improvements to the AMD Technology, or to any Intellectual Property Rights in or to any Improvements to the AMD Technology, made by or for AMD or its Affiliates.

5.2 **By Broadcom.** As between the parties, Broadcom will retain all right, title and interest, including all Intellectual Property Rights, in and to any Improvements to the AMD Technology made by or for Broadcom or its Subsidiaries (other than Improvements to the AMD Technology made by AMD pursuant to the Transition Services Agreement) in the exercise of the licenses granted to Broadcom and its Subsidiaries hereunder, subject only to the ownership of AMD and its Affiliates in the underlying AMD Technology, and AMD Intellectual Property Rights. Unless otherwise agreed by the parties in writing, Broadcom has no obligation to disclose or license to AMD any Improvements to the AMD Technology, or to any Intellectual Property Rights in or to any Improvements to the AMD Technology, made by or for Broadcom or its Subsidiaries, but Broadcom acknowledges the covenant not to sue specified in Section 3.4.

5.3 **Rights in Data.** Broadcom acknowledges that all Licensed Software and related documentation licensed by AMD to Broadcom pursuant to this Agreement are “Commercial Computer Software” or “Commercial Computer Software Documentation” as defined in FAR 12.212 for civilian agencies and DFARS 227.7202 for military agencies, and that in the event Broadcom sells products incorporating the AMD Technology or Derivatives or Improvements to the AMD Technology to the U.S. Government, such items shall be provided under terms at least as restrictive as the terms of this Agreement.

5.4 **No Obligation to Obtain or Maintain Rights in Technology.** Except as otherwise set forth herein, in the APA or any agreement or document referenced in the APA, no party shall be obligated under this Agreement to provide the other parties with any technical assistance or to furnish the other parties with, or obtain, any documents, materials or other information or Technology.

5.5 **No Obligation to Obtain Or Maintain Patents.** No party is obligated to (i) file any patent application, or to secure any patent or patent rights or (ii) to maintain any patent in force.

## 6. CONFIDENTIAL INFORMATION

6.1 **Confidentiality.** The confidentiality provisions set forth in the IP Cross License shall govern and apply to the Confidential Information. The terms and conditions of this Agreement shall be protected under Section 7.3 of the IP Cross License to the same extent as the terms and conditions of the IP Cross License.

## 7. REPRESENTATIONS AND WARRANTIES

7.1 **WARRANTY DISCLAIMER.** WITHOUT LIMITING ANY EXPRESS REPRESENTATIONS OR WARRANTIES AS TO LICENSED IP ASSETS UNDER THE APA, (A) BROADCOM ACKNOWLEDGES AND AGREES THAT ALL AMD TECHNOLOGY AND IMPROVEMENTS TO AMD TECHNOLOGY SUPPLIED BY AMD UNDER THIS AGREEMENT ARE PROVIDED BY AMD "AS IS" AND WITHOUT WARRANTY OF ANY KIND; AND (B) AMD HEREBY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE AMD TECHNOLOGY AND IMPROVEMENTS, INCLUDING ANY WARRANTIES OF DESIGN, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE. AMD MAKES NO REPRESENTATIONS OR WARRANTIES THAT THE AMD TECHNOLOGY IS ERROR FREE.

## 8. LIMITATION OF LIABILITY

8.1 TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, AND EXCEPT FOR BREACHES OF CONFIDENTIALITY OBLIGATIONS OR BREACHES OF LICENSE RESTRICTIONS, IN NO EVENT SHALL A PARTY BE LIABLE UNDER THIS AGREEMENT TO THE OTHER PARTY OR TO ANY PARTY CLAIMING THROUGH OR UNDER ANOTHER PARTY, FOR ANY LOST PROFITS, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION IN CONTRACT, TORT (INCLUDING STRICT LIABILITY), BASED ON A WARRANTY, OR OTHERWISE, ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT, EVEN IF SUCH PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

8.2 TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, AND WITHOUT LIMITING ANY OTHER PROVISION IN THIS AGREEMENT, IN NO EVENT SHALL AMD OR ITS AFFILIATES BE LIABLE FOR ANY DAMAGES RELATING TO OR RESULTING FROM THE USE OF AMD TECHNOLOGY IN PRODUCTS USED FOR AVIATION, MEDICAL, NUCLEAR OR HAZARDOUS PURPOSES OR FOR ANY DAMAGES OWED TO THIRD PARTIES RELATING TO TECHNOLOGY NOT PROVIDED BY AMD. LIABILITY FOR DAMAGES SHALL BE LIMITED AND EXCLUDED AS SET FORTH HEREIN, EVEN IF ANY EXCLUSIVE REMEDY PROVIDED FOR IN THIS AGREEMENT FAILS OF ITS ESSENTIAL PURPOSE.

8.3 AMD SHALL NOT BE RESPONSIBLE FOR ANY RECOVERABLE OR NON-RECOVERABLE COSTS INCURRED, DIRECTLY OR INDIRECTLY, BY BROADCOM OR ITS SUBSIDIARIES IN THE DESIGN MIGRATION, PROCESSING, OR MANUFACTURE OF MASKS AND PROTOTYPES, OR THE CHARACTERIZATION OR MANUFACTURE OF PRODUCTION QUALITY SILICON IN ANY QUANTITY, AS A RESULT OF BROADCOM'S OR ITS SUBSIDIARIES' EXERCISE OF THE LICENSES UNDER THIS AGREEMENT.

## 9. TERM

9.1 **Term.** The term of this Agreement shall begin on the Effective Date and unless earlier terminated as provided below, shall continue in perpetuity.

9.2 **Termination.** This Agreement may only be terminated by express mutual written agreement of the parties in the form of an amendment to this Agreement.

9.3 **AMD Bankruptcy.** Each party's rights under this Agreement are perpetual, irrevocable, and nonexecutory, notwithstanding any other provision of this Agreement or any other contract, and to the maximum extent permitted by applicable law. In the event of the commencement of a bankruptcy proceeding by or against a party, the license grant or covenant not to sue, as applicable, to the other party in Section 3 shall continue in full force and effect. Under no circumstances shall the other party's exercise of the rights granted to it in Section 3, or reliance on the covenant not to sue granted to it in Section 3.4, ever be construed as an infringement of the licensor party's rights in the AMD Intellectual Property Rights, the AMD Technology, the Broadcom Owned Improvements or the Intellectual Property Rights owned by Broadcom or its Subsidiaries that cover the Broadcom Owned Improvements, as applicable. In the event that a bankruptcy court or other court of competent jurisdiction ever determines by final judgment that this Agreement is executory, despite every intention and effort by the parties to negotiate and document nonexecutory rights for the other party, and without implying any acceptance of the rejected concept that it is legally impossible to create such a nonexecutory license for Intellectual Property Rights or Technology, all rights and licenses granted under or pursuant to this Agreement are, and shall otherwise be deemed to be, for purposes of Section 365(n) of the U.S. Bankruptcy Code, licenses of rights to "intellectual property" as defined under Section 101 of the U.S. Bankruptcy Code and the APA is an agreement "supplemental to" this license. Furthermore, in such an event, the parties agree that each party, as a licensee or beneficiary (as applicable) of rights under this Agreement, shall retain and may fully exercise all of its rights and elections under the U.S. Bankruptcy Code and other applicable law, including any right by such party to specific performance of this Agreement, since each party acknowledges and agrees that the AMD Intellectual Property Rights, the AMD Technology, the Broadcom-Owned Improvements or the Intellectual Property Rights owned by Broadcom or its Subsidiaries that cover the Broadcom Owned Improvements are unique and that rejection of the license or covenant not to sue will cause the other party irreparable harm for which its legal remedies are inadequate; provided, however, nothing herein shall be deemed to constitute a present exercise of such rights and elections. Notwithstanding anything to the contrary herein or under Section 365(n) of the U.S. Bankruptcy Code, the parties agree and acknowledge that AMD and its Subsidiaries are not entitled to obtain embodiments of, and Broadcom and its Subsidiaries have no obligation to disclose, Broadcom Owned Improvements or the Intellectual Property Rights owned by Broadcom or its Subsidiaries that cover the Broadcom Owned Improvements.

## 10. GENERAL TERMS AND CONDITIONS

10.1 **Governing Law; Venue.** This Agreement and any disputes hereunder shall be governed by and construed in accordance with the domestic laws of the State of California, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of California or any other jurisdiction) that would cause the application of laws of any jurisdiction other than those of the State of California. Any dispute, claim or controversy arising out of this Agreement shall be submitted to the exclusive jurisdiction and venue in the federal and state courts located in and serving Santa Clara County, California. Notwithstanding the foregoing, in the event that any dispute, claim or controversy arising out of this Agreement also involves a dispute, claim or controversy arising out of the APA, the governing law and dispute resolution provisions of the APA shall govern all such disputes, claims and controversies.

10.2 **Notices.** All notices and other communications hereunder shall be in writing and shall be deemed to have been duly given when delivered in person, by telecopy with answer back, by express or overnight mail delivered by a nationally recognized air courier (delivery charges prepaid), by registered or certified mail (postage prepaid, return receipt requested) or by e-mail with receipt confirmed by return e-mail to the respective parties as follows:

if to AMD:

Advanced Micro Devices, Inc.  
7171 Southwest Parkway  
Austin, Texas 78735  
Attention: General Counsel  
Fax: (512) 602-4999

if to Broadcom:

Broadcom Corporation  
5300 California Ave.  
Irvine, California 92617  
Attention: General Counsel  
Fax: (949) 926-9244

or to such other address as the party to whom notice is given may have previously furnished to the other in writing in the manner set forth above. Any notice or communication delivered in person shall be deemed effective on delivery. Any notice or communication sent by e-mail, telecopy or by air courier shall be deemed effective on the first Business Day following the day on which such notice or communication was sent. Any notice or communication sent by registered or certified mail shall be deemed effective on the third Business Day following the day on which such notice or communication was mailed.

10.3 **Assignment.** In addition to the sublicense rights enumerated in Section 3, in the event of a sale of any portion of the business of either party that utilizes the license granted hereby, either party may grant sublicenses, or extend the covenant not to sue, to the purchaser of such portion of the business (including as to AMD, AMD's handheld business unit) to be used by such purchaser solely in connection with the business sold to the purchaser and not for any other business. No party may, directly or indirectly, in whole or in part, whether voluntarily or involuntarily or by operation of law or otherwise, assign or transfer this Agreement and the rights granted to it hereunder without the other party's prior written consent, which consent may be granted or refused at the other party's sole discretion. Notwithstanding the foregoing, either party may assign this Agreement and the rights and covenants granted to it hereunder, subject to its obligations, to a successor in interest without the consent of the other party upon any merger, acquisition, reorganization, change of control, or sale of all or substantially all of the assets or business of such party or the sale of all or substantially all of the assets or the business related to the Intellectual Property Rights and Technology licensed to such party under this Agreement, to be used by the successor solely in connection with the business sold to the successor and not for any other business. Any assignment in violation of this Section shall be null and void from the beginning and shall be deemed a material breach of this Agreement. AMD shall not assign, transfer or otherwise divest any right, title or interest in or to AMD Technology or any of the AMD Intellectual Property Rights unless (a) such assignment, transfer or other divestiture is subject to all of the rights granted to Broadcom under this Agreement, and (b) the Person(s) to whom such right, title or interest is transferred is informed in writing, on or before the effectiveness of such assignment, transfer or divestiture, of the rights granted to Broadcom under this Agreement.

10.4 **Relationship Between Parties.** Broadcom and AMD shall at all times and for all purposes be deemed to be independent contractors and neither party, its Affiliates, nor either party's or its Affiliates' employees, representatives, subcontractors or agents, shall have the right or power to bind the other party. This Agreement shall not itself create or be deemed to create a joint venture, partnership or similar association between Broadcom and AMD or either party's or its Affiliates' employees, representatives, subcontractors or agents.

10.5 **Third Party Beneficiaries.** The terms and provisions of this Agreement are intended solely for the benefit of Broadcom and its Subsidiaries, on the one hand, and AMD and its Subsidiaries, on the other hand. It is not the intention of the parties to confer third-party beneficiary rights upon any other person or entity, and this Agreement does not (shall not be construed to) confer any right or cause of action in, upon or on behalf of any other person or entity, and no person or entity (including any of employee or former employee of any of the parties) other than Broadcom or its Subsidiaries and AMD or its Subsidiaries shall be entitled to rely on any provision of this Agreement in any action proceeding, hearing or other forum.

10.6 **Severability.** In the event that any clause, sub-clause or other provision contained in this Agreement shall be determined by any competent authority to be invalid, unlawful or unenforceable to any extent, such clause, sub-clause or other provision shall to that extent be severed from the remaining clauses and provisions, or the remaining part of the clause in question, which shall continue to be valid and enforceable to the fullest extent permitted by law.

10.7 **No Waiver; Remedies Cumulative.** Failure or neglect by a party to enforce at any time any of the provisions hereof shall not be construed nor shall be deemed to be a waiver of such party's rights hereunder nor in any way affect the validity of the whole or any part of this Agreement nor prejudice such party's rights to take subsequent action. All rights and remedies conferred under this Agreement or by any other instrument or law shall be cumulative and may be exercised singularly or concurrently.

10.8 **Amendment.** Any term of this Agreement may be amended, modified, rescinded, canceled or waived, in whole or in part, only by a written instrument signed by each of the parties' authorized representatives or their respective permitted successors and assigns. Any amendment or waiver effected in accordance with this Section shall be binding upon the parties and their respective successors and assigns.

10.9 **Counterparts.** This Agreement may be executed in two or more counterparts, all of which, taken together, shall be considered to be one and the same instrument.

10.10 **Headings; Construction.** The headings to the clauses, sub-clauses and parts of this Agreement are inserted for convenience of reference only and are not intended to be part of or to affect the meaning or interpretation of this Agreement. The terms "this Agreement," "hereof," "hereunder" and any similar expressions refer to this Agreement and not to any particular Section or other portion hereof. The parties hereto agree that any rule of construction to the effect that ambiguities are to be resolved against the drafting party will not be applied in the construction or interpretation of this Agreement. As used in this Agreement, the words "include" and "including," and variations thereof, will be deemed to be followed by the words "without limitation" and "discretion" means sole discretion.

10.11 **Entire Agreement.** With the exception of the APA and the Ancillary Agreements, this Agreement (including its Exhibits, each of which are incorporated herein by this reference) supersedes any arrangements, understandings, promises or agreements made or existing between the parties hereto prior to or simultaneously with this Agreement with respect to the subject matter hereof and thereof and constitutes the entire understanding between the parties hereto with respect to the subject matter hereof, except for the Project Addendum and Exclusivity Agreement, which shall continue as set forth in Section 5.2 of the APA.

10.12 **Export.** In recognition of U.S. and non-U.S. export control laws and regulations, each party agrees that it will not export, or transfer for the purpose of re-export, any product, technical data received hereunder or any product produced by use of such technical data, including processes and services (each, an "**Exported Product**"), in violation of any U.S. or non-US regulation, treaty, executive order, law, statute, amendment or supplement thereto. Further, neither party will export an Exported Product to any prohibited or embargoed country or to any denied, blocked, or designated person or entity as mentioned in any such U.S. or non-US regulation, treaty, executive order, law, statute, amendment or supplement thereto.

*[Balance of page intentionally left blank.]*

IN WITNESS WHEREOF, each party has caused this Agreement to be executed by its duly authorized representative:

**ADVANCED MICRO DEVICES, INC.**

By: /s/ Harry A. Wolin  
Name: Harry A. Wolin  
Title: Sr. Vice President, General Counsel & Secretary

**SIGNATURE PAGE TO IP CORE LICENSE AGREEMENT**

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**BROADCOM CORPORATION**

By: /s/ Scott A. McGregor  
Name: Scott A. McGregor  
Title: President and Chief Executive Officer

**SIGNATURE PAGE TO IP CORE LICENSE AGREEMENT**

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**EXHIBIT A**  
**AMD Technology**

[\*\*\*]

ADVANCED MICRO DEVICES, INC.  
LIST OF SUBSIDIARIES  
As of December 30, 2023

**Domestic Subsidiaries**

	<b><u>State or Jurisdiction Which Incorporated or Organized</u></b>
Advanced Micro Ltd. <sup>(*)</sup>	California
AMD Corporation <sup>(*)</sup>	California
Auviz Systems Inc. <sup>(1)(*)</sup>	California
Xilinx Development Corporation <sup>(1)</sup>	California
HiAlgo Inc. <sup>(*)</sup>	California
AMD Advanced Research, LLC	Delaware
AMD (EMEA) LTD.	Delaware
AMD Far East Ltd.	Delaware
AMD International Sales & Service, Ltd.	Delaware
AMD Latin America Ltd.	Delaware
AMD Research Technologies, Inc.	Delaware
Level 5 Networks, Inc. <sup>(2)</sup>	Delaware
Midgard Acquisition LLC <sup>(1)(*)</sup>	Delaware
Mipsology, Inc. <sup>(23)</sup>	Delaware
NGCodec Inc. <sup>(1)(*)</sup>	Delaware
Nod, Inc.	Delaware
Pensando Systems, Inc.	Delaware
SeaMicro, Inc. <sup>(*)</sup>	Delaware
Xilinx, Inc.	Delaware
Silexica, Inc. <sup>(1)</sup>	Delaware
Solarflare Communications, Inc. <sup>(1)</sup>	Delaware

**Foreign Subsidiaries**

Xilinx Armenia LLC <sup>(1)</sup>	Armenia
ATI International SRL <sup>(*)</sup> <sup>(3)</sup>	Barbados
Xilinx Benelux B.V. <sup>(19)</sup>	Belgium
ATI Technologies (Bermuda) Limited <sup>(3)</sup>	Bermuda
Advanced Micro Devices Belgium N.V. <sup>(4)</sup>	Belgium
AMD South America LTDA. <sup>(5)</sup>	Brazil
1252986 Alberta ULC	Canada
ATI Technologies ULC <sup>(6)</sup>	Canada
Xilinx Canada Co. <sup>(7)</sup>	Canada
Advanced Micro Devices (China) Co., Ltd.	China
Advanced Micro Devices (Shanghai) Co., Ltd. <sup>(8)</sup>	China
Advanced Micro Devices Products (China) Co., Ltd. <sup>(8)</sup>	China
Chengdu Haiguang Microelectronics Technology Co., Ltd. <sup>(9)</sup>	China
Xilinx Technology Beijing Limited <sup>(10)</sup>	China
Xilinx Technology Shanghai Limited <sup>(7)</sup>	China
Advanced Micro Devices SAS	France
Mipsology SAS <sup>(1)</sup>	France
Xilinx SARL <sup>(1)</sup>	France
Advanced Micro Devices GmbH	Germany
Silexica GmbH <sup>(11)</sup>	Germany
Xilinx Dresden GmbH i.L. <sup>(1)(**)</sup>	Germany
Xilinx GmbH <sup>(1)</sup>	Germany

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Xilinx Hong Kong Limited <sup>(7)</sup>	Hong Kong SAR, China
AMD India Private Limited <sup>(12)</sup>	India
Pensando Systems India Private Limited <sup>(22)</sup>	India
Solarflare India Private Limited <sup>(21)(*)</sup>	India
Xilinx India Technology Services Private Limited <sup>(20)</sup>	India
Xilinx Finance Ireland Limited <sup>(13)</sup>	Ireland
Xilinx Ireland Unlimited Company <sup>(13)</sup>	Ireland
Xilinx Israel Limited <sup>(1)</sup>	Israel
Advanced Micro Devices S.p.A.	Italy
AMD Japan Ltd.	Japan
Xilinx Kabushiki Kaisha <sup>(1)</sup>	Japan
Advanced Micro Devices Sdn. Bhd.	Malaysia
Advanced Micro Devices Global Services (M) Sdn. Bhd.	Malaysia
ATI Technologies (L) Inc. <sup>(14)</sup>	Malaysia
Advanced Micro Devices Malaysia Ltd. <sup>(15)</sup>	Malaysia
Xilinx NL B.V. <sup>(16)</sup>	Netherlands
Advanced Micro Devices (Poland) sp. z o.o.	Poland
AMD Advanced Micro Devices (ROU) S.R.L.	Romania
Advanced Micro Devices RS d.o.o.	Serbia
Advanced Micro Devices (Singapore) Pte. Ltd.	Singapore
Xilinx Asia Pacific Pte. Ltd. <sup>(13)</sup>	Singapore
Xilinx Sales International Pte. Ltd. <sup>(13)</sup>	Singapore
Xilinx Singapore Holding Pte. Ltd. <sup>(13)</sup>	Singapore
Xilinx Holding Three Pte. Ltd. <sup>(1)</sup>	Singapore
Advanced Micro Devices (Spain), S.L.	Spain
Advanced Micro Devices, AB	Sweden
Xilinx AB <sup>(1)</sup>	Sweden
Advanced Micro Devices CH GmbH	Switzerland
Advanced Micro Devices (U.K.) Limited	United Kingdom
Xilinx Limited <sup>(18)</sup>	United Kingdom
Xilinx NI Limited <sup>(10)</sup>	United Kingdom
Xilinx Technology Ltd. <sup>(17)</sup>	United Kingdom

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- (\*) Inactive
- (\*\*) In the process of being dissolved.
- (1) 100% owned by Xilinx, Inc.
- (2) Subsidiary of Solarflare Communications, Inc.
- (3) 100% owned by ATI Technologies ULC
- (4) 99.9952% owned by Advanced Micro Devices, Inc., .0048% owned by AMD International Sales & Service, Ltd.
- (5) 99.9% owned by AMD International Sales & Service, Ltd., 0.1% owned by AMD Far East Ltd.
- (6) Subsidiary of 1252986 Alberta ULC.
- (7) Subsidiary of Xilinx Development Corporation
- (8) Subsidiary of Advanced Micro Devices (China) Co., Ltd.
- (9) 51% owned by Advanced Micro Devices, Inc.
- (10) Subsidiary of Xilinx Singapore Holding Pte. Ltd.
- (11) Subsidiary of Silexica, Inc.
- (12) 47.18% owned by ATI Technologies ULC, 52.82% owned by Advanced Micro Devices, Inc., less than 0.01% owned by 1252986 Alberta ULC and AMD Far East Ltd.
- (13) Subsidiary of Xilinx Holding Three Pte. Ltd.
- (14) Subsidiary of ATI Technologies (Bermuda) Limited
- (15) Subsidiary of ATI Technologies (L) Inc.
- (16) Subsidiary of Xilinx Finance Ireland Ltd.
- (17) Subsidiary of Level 5 Networks, Inc.
- (18) 99.9% owned by Xilinx, Inc., 0.1% owned by Xilinx Development Corporation
- (19) 99.867% owned by Xilinx, Inc., 0.133% owned by Xilinx Development Corporation
- (20) 99.9% owned by Xilinx Development Corporation, 0.1% owned by Xilinx Canada Co.
- (21) 99.99% owned by Solarflare Communications, Inc., 0.01% owned by Level 5 Networks, Inc.
- (22) 99.99% owned by Pensando Systems, Inc., 0.01% owned by Anthony Prabhu
- (23) Subsidiary of Mipsology SAS

**Consent of Independent Registered Public Accounting Firm**

We consent to the incorporation by reference in the following Registration Statements of Advanced Micro Devices, Inc.:

- Registration Statement on Form S-8 (No. 333-115474) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan;
- Registration Statement on Form S-8 (No. 333-134853) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan and the Advanced Micro Devices, Inc. 2000 Employee Stock Purchase Plan;
- Registration Statement on Form S-8 (No. 333-159367) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan;
- Registration Statement on Form S-8 (No. 333- 166616) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan;
- Registration Statement on Form S-8 (No. 333-181451) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan;
- Registration Statement on Form S-8 (No. 333- 190039) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan;
- Registration Statement on Form S-8 (No. 333-195984) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan;
- Registration Statement on Form S-8 (No. 333- 204166) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan;
- Registration Statement on Form S-8 (No. 333-211438) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan;
- Post-Effective Amendment No. 1 to Registration Statement on Form S-8 (No. 333-204166) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan;
- Registration Statement on Form S-8 (No. 333-217784) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan and 2017 Employee Stock Purchase Plan;
- Registration Statement on Form S-8 (No. 333-232922) pertaining to the Advanced Micro Devices, Inc. 2004 Equity Incentive Plan;
- Registration Statement on Form S-3 (No. 333-265433);
- Registration Statement on Form S-8 (No. 333-262698) pertaining to the Xilinx, Inc. 2007 Equity Incentive Plan; and
- Registration Statement on Form S-8 (no. 333-272042) pertaining to the Advanced Micro Devices, Inc. 2023 Equity Incentive Plan

of our reports dated January 31, 2024, with respect to the consolidated financial statements of Advanced Micro Devices, Inc. and the effectiveness of internal control over financial reporting of Advanced Micro Devices, Inc. included in this Annual Report (Form 10-K) of Advanced Micro Devices, Inc. for the year ended December 30, 2023.

/s/ Ernst & Young LLP

San Jose, California

January 31, 2024

**POWER OF ATTORNEY**

KNOW ALL BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Jean Hu and Ava Hahn, and each of them, his or her true and lawful attorneys-in-fact and agents, with full power of substitution and re-substitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign Advanced Micro Devices, Inc.'s Annual Report on Form 10-K for the fiscal year ended December 30, 2023, and any and all amendments thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their or his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

<b>Signature</b>	<b>Title</b>	<b>Date</b>
<u>/s/Lisa T. Su</u> Lisa T. Su	Chair, President and Chief Executive Officer, Director	January 31, 2024
<u>/s/Jean Hu</u> Jean Hu	Executive Vice President, Chief Financial Officer and Treasurer	January 31, 2024
<u>/s/Darla M. Smith</u> Darla M. Smith	Corporate Vice President, Chief Accounting Officer	January 31, 2024
<u>/s/Nora M. Denzel</u> Nora M. Denzel	Director, Lead Independent Director	January 29, 2024
<u>/s/Mark Durcan</u> Mark Durcan	Director	January 30, 2024
<u>/s/Mike P. Gregoire</u> Mike P. Gregoire	Director	January 29, 2024

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/s/Joe A. Householder Director January 29, 2024  
Joe A. Householder

/s/John W. Marren Director January 29, 2024  
John W. Marren

/s/Jon A. Olson Director January 29, 2024  
Jon A. Olson

/s/Abhi Y. Talwalkar Director January 29, 2024  
Abhi Y. Talwalkar

/s/Beth W. Vanderslice Director January 30, 2024  
Beth W. Vanderslice



**Certification of Chief Executive Officer**  
**Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002**

I, Lisa T. Su, certify that:

1. I have reviewed this annual report on Form 10-K of Advanced Micro Devices, Inc. (the “Company”);
  2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
  3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the Company as of, and for, the periods presented in this report;
  4. The Company’s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the Company and have:
    - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the Company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
    - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
    - c) evaluated the effectiveness of the Company’s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
    - d) disclosed in this report any change in the Company’s internal control over financial reporting that occurred during the Company’s most recent fiscal quarter (the Company’s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the Company’s internal control over financial reporting;
  5. The Company’s other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the Company’s auditors and the audit committee of the Company’s board of directors (or persons performing the equivalent functions):
-

- a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the Company's ability to record, process, summarize and report financial information; and
- b) any fraud, whether or not material, that involves management or other employees who have a significant role in the Company's internal control over financial reporting.

Date: January 31, 2024

*/s/Lisa T. Su*

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Lisa T. Su  
Chair, President and Chief Executive Officer  
(Principal Executive Officer)

**Certification of Chief Financial Officer  
Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002**

I, Jean Hu, certify that:

1. I have reviewed this annual report on Form 10-K of Advanced Micro Devices, Inc. (the “Company”);
  2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
  3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the Company as of, and for, the periods presented in this report;
  4. The Company’s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the Company and have:
    - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the Company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
    - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
    - c) evaluated the effectiveness of the Company’s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
    - d) disclosed in this report any change in the Company’s internal control over financial reporting that occurred during the Company’s most recent fiscal quarter (the Company’s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the Company’s internal control over financial reporting;
  5. The Company’s other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the Company’s auditors and the audit committee of the Company’s board of directors (or persons performing the equivalent functions):
-

- a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the Company's ability to record, process, summarize and report financial information; and
- b) any fraud, whether or not material, that involves management or other employees who have a significant role in the Company's internal control over financial reporting.

Date: January 31, 2024

*/s/Jean Hu*

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Jean Hu  
Executive Vice President,  
Chief Financial Officer and Treasurer  
(Principal Financial Officer)

**Certification of Principal Executive Officer Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002**

Pursuant to 18 U.S.C. § 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned officer of Advanced Micro Devices, Inc. (the "Company") hereby certifies, to such officer's knowledge, that:

- (i.) the Annual Report on Form 10-K of the Company for the period ended December 30, 2023 (the "Report") fully complies with the requirements of Section 13(a) or Section 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (ii.) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: January 31, 2024

*/s/Lisa T. Su*

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Lisa T. Su  
Chair, President and Chief Executive Officer  
(Principal Executive Officer)

**Certification of Principal Financial Officer Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002**

Pursuant to 18 U.S.C. § 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned officer of Advanced Micro Devices, Inc. (the "Company") hereby certifies, to such officer's knowledge, that:

- (i.) the Annual Report on Form 10-K of the Company for the period ended December 30, 2023 (the "Report") fully complies with the requirements of Section 13(a) or Section 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (ii.) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: January 31, 2024

*/s/Jean Hu*

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Jean Hu  
Executive Vice President,  
Chief Financial Officer and Treasurer  
(Principal Financial Officer)

**Advanced Micro Devices, Inc.****Compensation Recovery Policy**

This Advanced Micro Devices, Inc. Compensation Recovery Policy (the “*Policy*”) is hereby adopted by the Board of Directors (the “*Board*”) of Advanced Micro Devices, Inc. (the “*Company*”) as of November 17, 2023 (the “*Effective Date*”). This Policy is intended to comply with Section 10D of the Securities and Exchange Act of 1934, as amended (the “*Exchange Act*”), and Listing Rule 5608 of The Nasdaq Stock Market LLC (“*Nasdaq*”), and will be interpreted consistent with such intent.

1. **Administration.** The Policy will be administered by the Compensation and Leadership Resources Committee of the Board (the “*Committee*”). The Committee will have full and final authority to make all determinations under this Policy, including without limitation whether the Policy applies and, if so, the amount of compensation to be repaid or forfeited by Executive Officers. All determinations and decisions made by the Committee pursuant to the provisions of this Policy will be final, conclusive and binding on all persons, including the Company, its subsidiaries, its stockholders and employees.
  2. **Individuals Subject to Policy.** The Policy will apply to each individual who is or was designated as an “officer” of the Company in accordance with 17 C.F.R. 240.16a-1(f), and includes, at a minimum, each individual who is an executive officer identified pursuant to 17 C.F.R. 229.401(b). Each individual subject to this Policy is herein referred to as an “*Executive Officer*”.
  3. **Defined Terms.** As used herein, the terms set forth below have the following meanings:
    - a. “**Accounting Restatement**” means an accounting restatement (i) due to the material noncompliance of the Company with any financial reporting requirement under the securities laws, including any required accounting restatement to correct an error in previously issued financial restatements that is material to the previously issued financial statements, or (ii) that corrects an error that is not material to previously issued financial statements, but would result in a material misstatement if the error were not corrected the current period or left uncorrected in the current period.
    - b. “**Covered Incentive Compensation**” means, in connection with an Accounting Restatement and with respect to each individual who served as an Executive Officer at any time during the applicable Performance Period for any Incentive Compensation (whether or not such Executive Officer is serving at the time the Excess Incentive Compensation is required to be repaid to the Company), all Incentive Compensation received by such Executive Officer (i) on or after October 2, 2023, (ii) after beginning service as an Executive Officer, (iii) while the Company has a class of securities listed on a national securities exchange or a national securities association, and (iv) during the applicable Recovery Period.
    - c. “**Excess Incentive Compensation**” means, with respect to each Executive Officer in connection with an Accounting Restatement, the amount of Covered Incentive Compensation that exceeds the amount of Incentive Compensation that otherwise would have been received had it been determined based on the restated amounts, computed without regard to any taxes paid.
    - d. “**Incentive Compensation**” means any compensation that is granted, earned, or vested based wholly or in part upon the attainment of one or more Financial Reporting Measures.
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- e. “**Financial Reporting Measure**” means any measure that is determined and presented in accordance with the accounting principles used in preparing the Company’s financial statements, and any measures that are derived wholly or in part from such measures. Stock price and total shareholder return (and any measures that are derived wholly or in part from stock price or total shareholder return) will, for purposes of the Policy, be considered Financial Reporting Measures. For the avoidance of doubt, a Financial Reporting Measure need not be presented in the Company’s financial statements or included in a filing with the SEC.
  - f. “**Performance Period**” means, with respect to any Incentive Compensation, the period during which a Financial Reporting Measure specified in the award of such Incentive Compensation must be attained.
  - g. Incentive Compensation is “**received**” by an Executive Officer during the Company’s fiscal year in which the Financial Reporting Measure specified in the award of such Incentive Compensation is attained, even if the payment or grant of such Incentive Compensation occurs after the end of such fiscal year.
  - h. “**Recovery Period**” means, with respect to any Accounting Restatement, the three completed fiscal years of the Company immediately preceding the Restatement Date and any transition period (that results from a change in the Company’s fiscal year) of less than nine months within or immediately following those three completed fiscal years.
  - i. “**Restatement Date**” means the earlier to occur of (i) the date the Board, a committee of the Board or the officers of the Company authorized to take such action if Board action is not required, concludes, or reasonably should have concluded, that the issuer is required to prepare an Accounting Restatement, or (ii) the date of court, regulator or other legally authorized body directs the issuer to prepare an Accounting Restatement.
  - j. “**SEC**” means the U.S. Securities and Exchange Commission.
4. **Recovery of Excess Incentive Compensation.**
- a. In the event of an Accounting Restatement, an Executive Officer will repay or forfeit, to the fullest extent permitted by law and as directed by the Committee, all Excess Incentive Compensation received by such Executive Officer.
  - b. The Committee will reasonably promptly after the Restatement Date with respect to such Accounting Restatement (whether or not the Company files restated financial statements) determine the amount of any Excess Incentive Compensation for each Executive Officer in connection with such Accounting Restatement and will promptly thereafter provide each Executive Officer with a written notice containing the amount of Excess Incentive Compensation and a demand for repayment or return, as applicable. For Incentive Compensation based on (or derived from) stock price or total shareholder return where the amount of the Excess Incentive Compensation is not subject to mathematical recalculation directly from the information in the applicable Accounting Restatement, the amount will be determined by the Committee based on a reasonable estimate of the effect of the Accounting Restatement on the stock price or total shareholder return upon which the Incentive Compensation was received (in which case, the Company will maintain documentation of such determination of that reasonable estimate and provide such documentation to Nasdaq).
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- c. The Committee will have broad discretion to determine the appropriate means of recovery of Excess Incentive Compensation based on all applicable facts and circumstances and taking into account the time value of money and the cost to shareholders of delaying recovery. To the extent the Committee determines that any method of recovery (other than repayment by the Executive Officer in a lump sum in cash or property) is appropriate, the Company will offer to enter into a repayment agreement (in a form reasonable acceptable to the Committee) with the Executive Officer. If the Executive Officer accepts such offer and signs the repayment agreement within thirty (30) days after such offer is extended, the Company will countersign such repayment agreement. If the Executive Officer fails to sign the repayment agreement within thirty (30) days after such offer is extended, the Executive Officer will be required to repay the Excess Compensation in a lump sum in cash (or such property as the Committee agrees to accept with a value equal to such Excess Compensation) on or prior to the date that is one hundred twenty (120) days following the Restatement Date. For the avoidance of doubt, except as set forth in Section 5 below, in no event may the Company accept an amount that is less than the amount of Excess Compensation in satisfaction of an Executive Officer's obligations hereunder.
  - d. To the extent an Executive Officer fails to repay all Excess Compensation to the Company when due (as determined in accordance with Section 4(c) above), the Company will take all actions reasonable and appropriate to recover such Excess Incentive Compensation from the applicable Executive Officer. The applicable Executive Officer will be required to reimburse the Company for any and all expenses reasonably incurred (including legal fees) by the Company in recovering such Excess Incentive Compensation in accordance with the immediately preceding sentence.
5. **Exceptions to Recovery.** The Committee will use all commercially reasonable efforts to reasonably promptly pursue recovery of the full amount of all Excess Incentive Compensation received by an Executive Officer (as determined pursuant to Section 4, above) unless:
- a. The Committee determines that recovery of the Excess Incentive Compensation would be impracticable; and
  - b. The Committee determines that: (i) the direct expense paid to a third party to assist in enforcing this Policy would exceed the amount to be recovered; (ii) recovery would violate home country law and such home country law was adopted before November 28, 2022, *provided that*, before determining that it would be impracticable to recover any amount of Excess Incentive Compensation based on violation of home country law, the Company has delivered to Nasdaq a copy of a legal opinion from qualified home country counsel that recovery would result in such a violation; or (iii) recovery of the Excess Incentive Compensation would likely cause an otherwise tax-qualified retirement plan, under which benefits are broadly available to employees of the Company, to fail to meet the requirements of 26 U.S.C. 401(a)(13) or 26 U.S.C. 411(a) and the regulations thereunder.
6. **Reporting and Disclosure.** The Company will file all disclosures with respect to this Policy in accordance with the requirement of the federal securities laws, including the disclosure required by the applicable SEC filings.
7. **No Indemnification.** Neither of the Company nor any of its subsidiaries will be permitted to indemnify any Executive Officer against (a) the loss of any Excess Incentive Compensation that is repaid, returned or recovered pursuant to the terms of this Policy, or (b) any claims relating to the Company's enforcement of its rights under this Policy. Further, neither the Company nor any of its subsidiaries may enter into any agreement that exempts any Incentive Compensation from the application of this Policy or waives the Company's right to recover any Excess Incentive Compensation, and this Policy will supersede any such agreement (whether entered into before, on or after the Effective Date).
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8. **Other Recovery Rights.** The Committee intends that this Policy will be applied to the fullest extent of the law. The Committee may require that any employment agreement, equity award agreement, or any other agreement entered into on or after the Effective Date will, as a condition to the grant of any benefit thereunder, require an Executive Officer to agree to abide by the terms of this Policy. Any right of recovery under this Policy is in addition to, and not in lieu of, any other remedies or rights of recovery that may be available to the Company and its subsidiaries under applicable law, regulation or rule or pursuant to the terms of any similar policy in any employment agreement, equity award agreement, or similar agreement and any other legal remedies available to the Company and its subsidiaries.
9. **Amendment; Termination.** The Committee may amend this Policy from time to time in its discretion and will amend this Policy as it deems necessary, including as and when it determines that it is legally required by any federal securities laws, SEC rule or the rules of any national securities exchange or national securities association on which the Company's securities are listed. The Committee may terminate this Policy at any time. Notwithstanding anything in this Section 9 to the contrary, no amendment or termination of this Policy will be effective if such amendment or termination would (after taking into account any actions taken by the Company contemporaneously with such amendment or termination) cause the Company to violate any federal securities laws, SEC rule or the rules of any national securities exchange or national securities association on which the Company's securities are listed.
10. **Compliance with Law.** Notwithstanding anything in this Policy to the contrary, the Committee and Company will comply with the relevant requirements of the Sarbanes-Oxley Act of 2002 and the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010.