

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

FORM 10-K

☒ ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2023

☐ 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 001-03761

TEXAS INSTRUMENTS INCORPORATED

(Exact Name of Registrant as Specified in Its Charter)

Delaware

(State of Incorporation)

75-0289970

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

12500 TI Boulevard, Dallas, Texas

(Address of principal executive offices)

75243

(Zip Code)

Registrant's telephone number, including area code 214-479-3773

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

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$1.00	TXN	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 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 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	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
Emerging growth company	<input type="checkbox"/>		
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.			<input type="checkbox"/>
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.			<input checked="" type="checkbox"/>
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.			<input type="checkbox"/>
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).			<input type="checkbox"/>

The aggregate market value of voting stock held by non-affiliates of the Registrant was approximately \$163,230,185,912 as of June 30, 2023.

Part III hereof incorporates information by reference to the Registrant's proxy statement for the 2024 annual meeting of stockholders.

PART I

ITEM 1. Business

We design and manufacture semiconductors that we sell to electronics designers and manufacturers all over the world. Our operations began in 1930, and we are incorporated in Delaware. With headquarters in Dallas, Texas, we have design, manufacturing or sales operations in more than 30 countries. Our two reportable segments are Analog and Embedded Processing, and we report the results of our remaining business activities in Other. In 2023, we generated \$17.52 billion of revenue.

For decades, we have operated with a passion to create a better world by making electronics more affordable through semiconductors. We were pioneers in the transition from vacuum tubes to transistors and then to integrated circuits. As each generation has become more reliable, more affordable and lower in power, semiconductors are used by a growing number of customers and markets. Our passion continues to be alive today as we help our customers develop electronics and new applications, particularly in industrial and automotive markets.

For many years, we have run our business with three overarching ambitions in mind. First, we will act like owners who will own the company for decades. Second, we will adapt and succeed in a world that is ever changing. And third, we will be a company that we are personally proud to be a part of and that we would want as our neighbor. Our ambitions are foundational to ensuring that we operate in a sustainable, socially thoughtful and environmentally responsible manner. When we are successful in achieving these ambitions, our employees, customers, communities and shareholders all win.

As engineers, we are fortunate to work on exciting technology which helps our customers innovate to create a better world. Technology is the foundation of our company, but ultimately, our objective and the best metric for owners to measure our progress is through the growth of free cash flow per share over the long term.

Our strategy to maximize long-term free cash flow per share growth has three elements:

The first element of our strategy is a business model that is focused on analog and embedded processing products and built around four competitive advantages. This business model is the result of a series of strategic decisions made over the years and that continue today. The four sustainable competitive advantages are a strong foundation of manufacturing and technology, a broad portfolio of analog and embedded processing products, the reach of our market channels, and diversity and longevity of our products, markets and customer positions. In combination, these four competitive advantages provide tangible benefits, are difficult to replicate and ultimately separate us from our best peers. Together, these competitive advantages help position TI in a unique class of companies capable of generating and returning significant amounts of cash for our owners. We make our investments with an eye towards long-term strengthening and leveraging of these advantages.

The second element of our strategy to maximize free cash flow per share growth is disciplined allocation of capital. This spans how we select R&D projects, develop new capabilities like TI.com, invest in new manufacturing capacity or how we think about acquisitions and returning cash to our owners. Over a 10-year period from 2014 to 2023, we allocated \$94 billion, which reinforces the importance of discipline in capital allocation. The largest allocation over this period was to drive organic growth, which includes investments in R&D, sales and marketing, capital expenditures and working capital for inventory. In this period, we allocated just over \$15 billion to capital expenditures. Our increased capital expenditures are to support future revenue growth, which will be a greater component of free cash flow per share growth going forward. Beyond that, we also allocated capital to dividends and share repurchases. Dividends are designed to appeal to a broad set of investors, and share repurchases are made with the goal of the accretive capture of future free cash flow for long-term investors. Lastly, for inorganic growth, we allocate to acquisitions that meet our financial and strategic objectives.

The third element of our strategy is efficiency, which we think of as constantly striving for more output for every dollar spent. This is about getting our investments in the most impactful areas to maximize the growth of long-term free cash flow per share; it is not just about optimizing cost cutting to get to the last dollar of expense. We bring this philosophy of efficiency and continuous improvement to all areas of the company, and this focus on efficiency contributes to revenue

growth, improved gross margins, disciplined R&D and SG&A expense, free cash flow margins and ultimately to free cash flow per share growth.

We believe that our business model with the combined effect of our four competitive advantages sets TI apart from our peers and will for a long time to come. We will invest to strengthen our competitive advantages, be disciplined in capital allocation and stay diligent in our pursuit of efficiencies. Finally, we will remain focused on the belief that long-term growth of free cash flow per share is the ultimate measure to generate value.

Product information

Semiconductors are electronic components that serve as the building blocks inside modern electronic systems and equipment. Semiconductors, generally known as “chips,” combine multiple transistors to form a complete electronic circuit. We have a diverse product portfolio that is used to accomplish many different things, such as converting and amplifying signals, interfacing with other devices, managing and distributing power, processing data, canceling noise and improving signal resolution. This broad portfolio includes approximately 80,000 products that are integral to almost every type of electronic equipment.

Our segments represent groups of similar products that are combined on the basis of similar design and development requirements, product characteristics, manufacturing processes and distribution channels. Our segments also reflect how management allocates resources and measures results.

Analog

Our Analog segment generated \$13.04 billion of revenue in 2023. Analog semiconductors change real-world signals, such as sound, temperature, pressure or images, by conditioning them, amplifying them and often converting them to a stream of digital data that can be processed by other semiconductors, such as embedded processors. Analog semiconductors are also used to manage power in all electronic equipment by converting, distributing, storing, discharging, isolating and measuring electrical energy, whether the equipment is plugged into a wall or using a battery. As the digitization of electronics continues, there is a growing need and opportunity for analog chips to provide the power to run devices and the critical interfaces with human beings, the real world and other electronic devices. Our Analog products are used in many markets, particularly industrial, automotive and personal electronics.

Sales of our Analog products generated about 74% of our revenue in 2023.

Our Analog segment includes the following major product lines: Power and Signal Chain.

Power

Power includes products that help customers manage power in electronic systems. Our broad portfolio is designed to manage power requirements across different voltage levels, including battery-management solutions, DC/DC switching regulators, AC/DC and isolated DC/DC switching regulators, power switches, linear and low-dropout regulators, voltage references and lighting products.

Signal Chain

Signal Chain includes products that sense, condition and measure real-world signals to allow information to be transferred or converted for further processing and control. Our Signal Chain products include amplifiers, data converters, interface products, motor drives, clocks, logic and sensing products.

Embedded Processing

Our Embedded Processing segment generated \$3.37 billion of revenue in 2023. Embedded Processing products are the digital “brains” of many types of electronic equipment. They are designed to handle specific tasks and can be optimized for various combinations of performance, power and cost, depending on the application. Our devices vary from simple, low-cost microcontrollers used in applications such as electric toothbrushes to highly specialized, complex devices such as motor control. Our Embedded Processing products are used in many markets, particularly industrial and automotive.

An important characteristic of our Embedded Processing products is that our customers often invest their own R&D to write software that operates on our products. This investment tends to increase the length of our customer relationships because many customers prefer to reuse software from one product generation to the next.

Sales of Embedded Processing products generated about 19% of our revenue in 2023.

Our Embedded Processing segment includes microcontrollers, digital signal processors (DSPs) and applications processors. Microcontrollers are self-contained systems with a processor core, memory and peripherals that are designed to control a set of specific tasks for electronic equipment. DSPs perform mathematical computations almost instantaneously to process or improve digital data. Applications processors are designed for specific computing activity.

Other

We report the results of our remaining business activities in Other, which includes operating segments that do not meet the quantitative thresholds for individually reportable segments and cannot be aggregated with other operating segments. Other generated \$1.11 billion of revenue in 2023 and includes revenue from DLP® products (primarily used to project high-definition images), calculators and certain custom semiconductors known as application-specific integrated circuits (ASICs).

In Other, we also include items that are not used in evaluating the results of or in allocating resources to our segments. Examples of these items include acquisition, integration and restructuring charges, as well as certain corporate-level items, such as litigation expenses, environmental costs and gains and losses from other activities, including asset dispositions.

Markets for our products

The table below lists the major markets for our products in 2023 and the estimated percentage of our 2023 revenue that the market represented. The chart also lists, in declining order of our revenue, the sectors within each market.

Market	Sector
Industrial (40% of TI revenue)	Factory automation & control
	Grid infrastructure
	Medical
	Aerospace & defense
	Test & measurement
	Building automation
	Motor drives
	Power delivery
	Appliances
	Pro audio, video & signage
	Industrial transport
	Retail automation & payment
	Lighting
Automotive (34% of TI revenue)	Infotainment & cluster
	Hybrid, electric & powertrain systems
	Advanced driver assistance systems (ADAS)
	Body electronics & lighting
	Passive safety
Personal electronics (15% of TI revenue)	Mobile phones
	PC & notebooks
	Portable electronics
	TV
	Connected peripherals & printers
	Tablets
	Home theater & entertainment
	Gaming
	Wearables (non-medical)
	Data storage
Communications equipment (5% of TI revenue)	Wireless infrastructure
	Wired networking
	Broadband fixed line access
	Datacom module
Enterprise systems (4% of TI revenue)	Data center & enterprise computing
	Enterprise projectors
	Enterprise machine
Other (calculators and other) (2% of TI revenue)	

Market characteristics

Competitive landscape

Despite consolidation, the analog and embedded processing markets remain highly fragmented. As a result, we face significant global competition from dozens of large and small companies, including both broad-based suppliers and niche suppliers. Our competitors also include emerging companies, particularly in Asia.

We believe that competitive performance in the semiconductor market generally depends on several factors, including the breadth of a company's product line, the strength and reach of its channels to market, technological innovation, product development execution, technical support, customer service, quality, reliability, price and manufacturing capacity and capabilities. In addition, manufacturing process and package technologies that provide differentiated levels of performance and a structural cost advantage are competitive factors for our analog products, and customers' prior investments in software development is a competitive factor for our embedded processing products.

Market cycle

The "semiconductor cycle" refers to the ebb and flow of supply and demand and the building and depleting of inventories. The semiconductor market historically has been characterized by periods of tight supply caused by strengthening demand and/or insufficient manufacturing capacity, followed by periods of surplus inventory caused by weakening demand and/or excess manufacturing capacity. These are typically referred to as upturns and downturns in the semiconductor cycle. Semiconductor cycles are affected by the significant time and money required to build and maintain semiconductor manufacturing facilities.

Seasonality

Our revenue is subject to some seasonal variation. Historically, our sequential revenue growth rate tends to be weaker in the first and fourth quarters when compared with the second and third quarters.

Customers, sales and distribution

We sell our products to over 100,000 customers. Our customer base is diverse, with more than 40% of our revenue derived from customers outside our largest 100.

We market and sell our products through direct sales channels, including our website and broad sales and marketing team, and, to a lesser extent, through distributors. Over the past several years, we have been investing in new capabilities to build closer direct customer relationships. As a result, in 2023 about 75% of our revenue was direct, which includes TI.com, as customers valued the convenience of purchasing online. Closer direct relationships with our customers help to strengthen our reach of market channel advantage and give us access to more customers and more of their design projects, leading to opportunities to sell more of our products into each design. Additionally, broader and deeper access gives us better insight and knowledge of customer needs.

Our investments in new and improved capabilities to directly support our customers include website and e-commerce enhancements as well as inventory consignment programs and order fulfillment services. Our TI.com e-commerce channel offers a localized online experience in many countries, with convenience features such as immediate availability, local currency, payment methods, invoicing and importer of record. Our new application programming interfaces (APIs) give customers the ability to directly access real-time information about TI products from their own systems, enabling them to purchase available chips immediately to better support their supply needs, reducing cost and delays.

In addition to doing business directly with TI, we offer customers the option of using a single worldwide distributor and a few region-specific distributors for order fulfillment.

Manufacturing

Semiconductor manufacturing begins with a sequence of photolithographic and chemical processing steps that fabricate a number of semiconductor devices on a thin silicon wafer. Each device on the wafer is packaged and tested. The entire process takes place in highly specialized facilities that require substantial investments.

We own and operate semiconductor manufacturing facilities in North America, Asia, Japan and Europe. These include both wafer fabrication and assembly/test facilities.

We invest in manufacturing technologies and do most of our manufacturing in-house. This strategic decision to make manufacturing and technology a core competitive advantage provides us with tangible benefits of lower manufacturing costs and greater control of our supply chain, offering our customers geopolitically dependable capacity. We have focused on creating a competitive manufacturing structural cost advantage by investing in our advanced 300mm capacity. An unpackaged chip built on a 300mm wafer costs about 40% less than an unpackaged chip built on a 200mm wafer.

We continue to invest to strengthen our competitive advantage in manufacturing and technology as part of our long-term capacity plan to meet demand over time. Semiconductor growth in electronics, particularly in industrial and automotive markets, is expected to continue well into the future. Progress and investments include:

- Ramping production in 300mm wafer fabrication facility RFAB2 in Richardson, Texas.
- Ramping production in 300mm wafer fabrication facility LFAB1 in Lehi, Utah.
- Continuing construction on SM1 and SM2 in Sherman, Texas, where we are building four 300mm wafer fabrication facilities.
- Starting construction on LFAB2, another 300mm wafer fabrication facility in Lehi, Utah.

Together, these investments are designed to strengthen our manufacturing and technology competitive advantage, provide us with lower costs and greater control of our supply chain, and support growth over the next 10 to 15 years.

We assess and are careful to address potential health, safety, and environmental risks presented by our operations, including our manufacturing operations. We care for our environment and work to prevent pollution and the potential risks related to climate change. We invest to reduce emissions over the long term in several ways, including installing new factory equipment with state-of-the-art emissions reduction technology, as well as retrofitting existing factory equipment with advanced abatement technology, in addition to using alternative gases and increasing the use of renewable electricity. We also continue to implement practices such as recycling and reusing materials and properly handling hazardous and restricted substances.

We expect to continue to maintain sufficient internal manufacturing capacity to meet the majority of our production needs and to obtain manufacturing equipment to support new technology developments and revenue growth. In 2023, we sourced about 80% of our total wafers and about 65% of our assembly/test production internally. With our planned capacity expansions, we expect these percentages to increase. To supplement our internal manufacturing capacity, we selectively use the capacity of outside suppliers, commonly known as foundries and subcontractors.

Inventory

Our objectives for inventory are to maintain high levels of customer service, maintain dependable and competitive lead times, minimize inventory obsolescence and improve manufacturing asset utilization. To meet these objectives and to allow greater flexibility in periods of high demand, our strategy is to build ahead of demand our broad-based products that are used across a diverse set of applications and customers and have low risk of obsolescence. Inventory levels will vary based on market conditions and seasonality.

Raw materials

We source materials, parts and supplies from a diverse set of suppliers globally. The materials, parts and supplies essential to our business are generally available, and we believe that such materials, parts and supplies will be available in the foreseeable future.

Intellectual property

We own many patents and have many patent applications pending in the United States and other countries in fields relating to our business. We have developed a strong, broad-based patent portfolio and continually add patents to that portfolio. We also have license agreements, which vary in duration, involving rights to our portfolio or those of other companies. We do not consider our business materially dependent upon any one patent or patent license.

Information about our executive officers

The following is an alphabetical list of the names and ages of the executive officers of the company and the positions or offices with the company held by each person named:

Name	Age	Position
Ahmad S. Bahai	61	Senior Vice President
Mark S. Gary	49	Senior Vice President
Haviv Ilan	55	Director, President and Chief Executive Officer
Hagop H. Kozanian	41	Senior Vice President
Shanon J. Leonard	48	Senior Vice President
Rafael R. Lizardi	51	Senior Vice President and Chief Financial Officer
Mark T. Roberts	48	Senior Vice President
Amichai Ron	46	Senior Vice President
Richard K. Templeton	65	Director and Chairman of the Board
Cynthia Hoff Trochu	60	Senior Vice President, Secretary and General Counsel
Christine A. Witzsche	39	Senior Vice President
Mohammad Yunus	46	Senior Vice President

The term of office of these officers is from the date of their election until their successor shall have been elected and qualified. All have been employees of the company for more than five years. Messrs. Bahai, Ilan, Kozanian, Lizardi and Templeton and Ms. Trochu have served as executive officers of the company for more than five years. Mr. Ron became an executive officer in 2019. Mr. Gary became an executive officer in 2020. Mr. Roberts and Ms. Witzsche became executive officers in 2021. Mr. Leonard became an executive officer in 2022. Mr. Yunus became an executive officer in 2024.

Human capital management

At December 31, 2023, we had about 34,000 employees worldwide. Of those, about 90% were in R&D, sales or manufacturing. Our objective for human capital management is to recruit, develop and retain the best talent possible. As a technology and manufacturing company, our success is grounded in having strong engineering talent and a reliable factory workforce. We have a promote-from-within culture and offer training and rotation programs that provide the opportunity to quickly gain experience in different areas. In 2023, our turnover rate was 8.1%.

It is important that our employees represent a mix of experiences and backgrounds in order to make our company stronger, more innovative and more inclusive. Inclusion is one of our core values, and we have programs in place to promote diversity and inclusion. We encourage you to review our Corporate Citizenship Report for more information. Nothing in the Corporate Citizenship Report shall be deemed incorporated by reference into this report.

Available information

Our internet address is www.ti.com. Information on our website is not part of this report. We make available free of charge through our Investor Relations website our reports on Forms 10-K, 10-Q and 8-K, and amendments to those reports, as soon as reasonably practicable after they are filed with the Securities and Exchange Commission. Also available through the TI Investor Relations website are reports filed by our directors and executive officers on Forms 3, 4 and 5, and amendments to those reports.

Available on our website at www.ti.com/corporategovernance: (i) our Corporate Governance Guidelines; (ii) charters for the Audit, Compensation, and Governance and Stockholder Relations Committees of our board of directors; (iii) our code of conduct; and (iv) our Code of Ethics for TI Chief Executive Officer and Senior Finance Officers. Stockholders may request copies of these documents free of charge by writing to Texas Instruments Incorporated, Attention: Investor Relations, P.O. Box 660199, MS 8657, Dallas, Texas, 75266-0199.

ITEM 1A. Risk factors

You should read the following risk factors in conjunction with the factors discussed elsewhere in this and other of our filings with the Securities and Exchange Commission (SEC) and in materials incorporated by reference into these filings. These risk factors are intended to highlight certain factors that may affect our financial condition and results of operations and are not meant to be an exhaustive discussion of risks that apply to TI, a company with broad international operations. Like many companies, we are susceptible to a potential downturn associated with macroeconomic weakness, which may affect our performance and the performance of our customers. Similarly, the price of our securities is subject to volatility due to fluctuations in general market conditions, actual financial results that do not meet our and/or the investment community's expectations, changes in our and/or the investment community's expectations for our future results, dividends or share repurchases, and other factors, many of which are beyond our control.

Risks related to our business and industry

Our global operations subject us to risks associated with domestic or international political, social, economic or other conditions.

We have facilities in more than 30 countries. About 65% of our revenue comes from customers with headquarter locations outside the United States; revenue from end customers headquartered in China represents about 20% of our revenue. We also continue to expand our offerings of online transactions and services worldwide. Certain countries where we operate have experienced, and other countries may experience, geopolitical tensions that affect global trade and macroeconomic conditions through the enactment of tariffs, import or export restrictions, trade embargoes and sanctions, restrictions on cross-border investment and other trade barriers. Geopolitical tensions may impact our ability to deliver products, support customers, receive manufacturing equipment or cause customers to seek alternate suppliers, which could adversely affect our operations and financial results.

We are exposed to political, social and economic conditions (including inflation), security risks, acts of war, terrorism or other hostile acts, pandemics, epidemics or other public health crises, labor conditions, climate change risks and possible disruptions in power, water supply, transportation, communications and information technology networks of the various countries in which we operate. Any of these factors could adversely affect our results of operations, financial condition and reputation. In addition, our global operations expose us to periods when the U.S. dollar significantly fluctuates in relation to the non-U.S. currencies in which we transact business. The remeasurement of non-U.S. dollar transactions can have an adverse effect on our results of operations and financial condition.

We face substantial competition that requires us to respond rapidly to product development and pricing pressures.

We face intense technological and pricing competition in the markets in which we operate. We expect this competition will continue to increase from large competitors and from small competitors serving niche markets, and also from emerging companies, particularly in Asia, that sell products into the same markets in which we operate. For example, we may face increased competition as a result of China actively promoting and reshaping its domestic semiconductor industry through policy changes and investment. These actions, in conjunction with trade tensions, may restrict us from participating in the China market or may prevent us from competing effectively. Certain competitors possess sufficient financial, technical and management resources and utilize available incentives offered by various countries and government entities to develop and market products that may compete favorably against our products, and consolidation among our competitors may allow them to compete more effectively. The price and product development pressures that result from competition may lead to reduced profit margins and lost business opportunities in the event that we are unable to match the price declines or cost efficiencies, or meet the technological, product, support, software or manufacturing advancements of our competitors.

Changes in expected demand for our products could have a material adverse effect on our results of operations.

Our customers include companies in a wide range of end markets and sectors within those markets. If demand in one or more sectors within our end markets declines or the rate of growth slows, our results of operations may be adversely affected. The cyclical nature of the semiconductor market occasionally leads to significant and rapid increases and decreases in product demand. Additionally, the loss or significant curtailment of purchases by one or more of our large customers, including curtailments due to a change in the design or manufacturing sourcing policies or practices of these customers, the timing of customer or distributor inventory adjustments, changes in demand for customer products, or trade restrictions, may adversely affect our results of operations and financial condition.

Our results of operations also might suffer because of a general decline or volatility in customer demand resulting from, for example: uncertainty regarding the stability of global credit and financial markets; natural events, pandemics, epidemics or domestic or international political, social, economic or other conditions; breaches of customer information technology systems that disrupt customer operations; or a customer's inability to access credit markets and other sources of needed liquidity.

Our ability to match inventory and production with the product mix needed to fill orders may affect our ability to meet a quarter's revenue forecast. We manufacture products with the intent to provide high levels of customer service. Our manufacturing forecasts are based on multiple assumptions, and if inaccurate, could cause us to hold inadequate, excess or obsolete inventory that would reduce our profit margins and adversely affect our results of operations and financial condition.

Our operating results and our reputation could be adversely affected by cybersecurity events, breaches, disruptions or other incidents relating to our information technology systems.

Breaches, disruptions or other incidents relating to our information technology systems or the systems of our customers, suppliers and other third parties could be caused by factors such as computer viruses, ransomware, malware, system failures, restricted network access, unauthorized access, terrorism, nation-state espionage, employee malfeasance, or human error. These events could, among other things, compromise our information technology networks; result in corrupt or lost data or the unauthorized release of our, our customers' or our suppliers' confidential or proprietary information; cause a disruption to our manufacturing and other operations (including our online services, platforms and transactions); result in the release of personal data; or cause us to incur costs associated with increased protection, remediation, regulatory inquiries or penalties, or claims for damages, any of which could adversely affect our operating results and our reputation. Cybersecurity or other threats to our information technology systems or the systems of our customers, suppliers and other third parties are frequent, increasingly sophisticated and constantly evolving, thereby making them more difficult to detect, mitigate and defend against.

Our ability to successfully implement strategic, business and organizational changes could affect our business plans and results of operations.

From time to time, we undertake strategic, business and organizational changes, including acquisitions, divestitures, capital investments and restructuring actions, to support or carry out our objectives. If we do not successfully implement these changes, our business plans and operating results could be adversely affected. We may not achieve or sustain the expected growth, cost savings or other benefits of strategic, business and organizational changes, and charges associated with these actions could differ materially in amount and timing from our expectations.

Our results of operations could be affected by natural events in the locations in which we operate.

We have manufacturing, data and design facilities and other operations in locations subject to natural occurrences such as severe weather, geological events or epidemics that could adversely affect manufacturing capacity, availability and cost of key raw materials, utilities and equipment or otherwise disrupt operations. Climate change might exacerbate these occurrences or cause natural disasters to occur with greater frequency and with more intense effects. A natural disaster that results in a prolonged disruption, particularly where we have principal manufacturing and design operations, as listed in the Properties section in Item 2, may adversely affect our results and financial condition.

Rapid technological change in markets we serve requires us to develop new technologies and products.

Rapid technological change in markets we serve could contribute to shortened product life cycles and a decline in average selling prices of our products. Our results of operations depend in part upon our ability to successfully develop, manufacture and market innovative products in a timely and cost-effective manner. We make significant investments in research and development to improve existing technology and products, develop new products to meet changing customer demands, and improve our production processes. In some cases, we might not realize a return or the expected return on our investments because they are generally made before commercial viability can be assured. Further, projects that are commercially viable may not contribute to our operating results until at least a few years after they are completed.

We face supply chain and manufacturing risks.

We rely on third parties to supply us with goods and services in a cost-effective and timely manner. Our access to needed goods and services may be adversely affected by potential disputes with suppliers or disruptions in our own or suppliers' operations as a result of, for example: quality excursions; uncertainty regarding the stability of global credit and financial markets; domestic or international political, social, economic and other conditions; natural events or epidemics in the locations in which our suppliers operate; or limited or delayed access to and high costs of key materials, natural resources, services and utilities. Additionally, a breach or other incident relating to our suppliers' information technology systems could result in a release of confidential or proprietary information. If our suppliers are unable to access credit markets and other sources of needed liquidity, we may be unable to obtain needed supplies, collect accounts receivable or access needed technology.

In particular, our manufacturing processes and critical manufacturing equipment, and those of our suppliers, require that certain key materials, natural resources, services and utilities be available. Suppliers of these items have and might continue to extend lead times, limit supply or increase prices due to factors beyond our control. Limited or delayed access to and high costs of key materials, natural resources, services and utilities could adversely affect our results of operations. Our products contain materials that are subject to conflict minerals reporting requirements. Our relationships with customers and suppliers may be adversely affected if we are unable to describe our products as conflict-free. Additionally, our costs may increase if one or more of our customers demand that we change the sourcing of materials we cannot identify as conflict-free.

Our inability to timely implement new manufacturing technologies, install manufacturing equipment or secure necessary personnel for manufacturing operations could adversely affect our results of operations. We have made and will continue to make significant investments in manufacturing capacity, and we might not realize our expected return on those investments. We subcontract a portion of our wafer fabrication and assembly and testing of our products, and we depend on third parties (including contractors and other service providers) to support key portions of our operations (including manufacturing operations and advanced logic manufacturing process technology development) and to construct our facilities. We do not have long-term contracts with all of these suppliers, and the number of alternate suppliers is limited. Reliance on these suppliers involves risks, including possible shortages of capacity in periods of high demand, suppliers' inability to develop and deliver advanced logic manufacturing process technology or build facilities in a timely, cost-effective, and appropriate manner, the possibility of suppliers' imposition of increased costs on us and the unauthorized disclosure or use of our intellectual property. In addition, failure by these suppliers to fulfill expectations, commitments and responsibilities in accordance with agreed terms or applicable laws, rules and regulations (including health, safety, forced labor, human trafficking and supply chain standards) could adversely affect our results of operations, financial condition and reputation.

Our continued success depends in part on our ability to retain and recruit a sufficient number of qualified employees in a competitive environment.

Our continued success depends in part on the retention and recruitment of skilled personnel as well as the contributions and effective succession of senior management and other key employees. Skilled and experienced personnel in our industry, including engineering, management, sales, technical and staff personnel, are in high demand, and competition for their talents is intense. There can be no assurance that we will be able to successfully retain, train and recruit the key engineering, management and technical personnel that we require to execute our business strategy. Our ability to recruit internationally or deploy employees to various locations may be limited by immigration laws and policies, including changes to, or the administration or interpretation of, those laws and policies.

Our results of operations and our reputation could be affected by warranty claims, product liability claims, product recalls or legal proceedings.

Claims based on warranty, product liability, epidemic or delivery failures, or other grounds relating to our products, software, manufacturing, services, designs, communications or cybersecurity could lead to significant expenses as we defend the claims or pay damage awards or settlements. In the event of a claim, we would also incur costs if we decide to compensate the affected customer or end consumer. Any such claims may also cause us to write off the value of related inventory. We maintain product liability insurance, but there is no guarantee that such insurance will be available or adequate to protect against all such claims. In addition, it is possible for a customer to recall a product containing a TI part, for example, with respect to products used in automotive applications or handheld electronics, which may cause us to incur costs and expenses relating to the recall. Improper, incorrect, illicit or unauthorized storage, handling, modification or use of our products (including use in applications for which our products were not designed), or use of counterfeit products, by third parties could result in reputational harm. Any of these events could adversely affect our results of operations, financial condition and reputation.

Our results of operations could be adversely affected by distributors' promotion of competing product lines or our distributors' financial performance.

In 2023, about 25% of our revenue was generated from sales of our products through distributors. Our distributors carry competing product lines, and our sales could be affected if semiconductor distributors promote competing products over our products. Moreover, our results of operations could be affected if our distributors suffer financial difficulties that result in their inability to pay amounts owed to us. Disputes with current or former distributors could be disruptive or harmful to our business.

Our margins vary.

Our profit margins vary due to a number of factors, which may include customer demand and shipment volume; capital expenditures and resulting depreciation; our manufacturing processes; product mix; inventory levels; tariffs; freight costs; and new accounting pronouncements or changes in existing accounting practices or standards. In addition, we operate in a highly competitive market environment that might adversely affect pricing for our products. Because we own much of our manufacturing capacity, a significant portion of our operating costs is fixed. With our planned capacity expansions, we expect capital expenditures and depreciation to increase. In general, these fixed costs do not decline with reductions in customer demand or factory loadings, and can adversely affect profit margins as a result.

Legal and regulatory risks

Our operations could be affected by the complex laws, rules and regulations to which our business is subject.

We are subject to complex laws, rules and regulations on an international, national and local level that affect our domestic and international operations relating to, for example, the environment and climate change; safety; health; trade, including import and export; bribery and corruption; financial reporting; tax; data privacy and protection; labor and employment; competition; facilities and code compliance; market access; pandemics, epidemics or other public health crises; intellectual property ownership and infringement; and the movement of currency. Compliance with these laws, rules and regulations may be onerous and expensive and could restrict our ability to manufacture or ship our products and operate our business. From time to time, we receive inquiries from government entities regarding our compliance with laws and regulations. If we do not comply with a law or regulation (or the same is alleged), or a government inquiry is unresolved, we could be subject to litigation, investigations or enforcement activity that can be unpredictable and time-consuming, as well as disruptions to our operations, or significant fines, penalties or other legal liability. Furthermore, should these laws, rules and regulations be amended or expanded, or new ones enacted, we could incur materially greater compliance costs or restrictions on our ability to manufacture our products and operate our business.

Increased focus from government authorities, investors, customers and other key stakeholders on environmental, social and governance (ESG) matters has led to new and more stringent reporting standards and disclosure requirements. As the nature, scope and complexity of ESG reporting, diligence and disclosure requirements expand, we might have to undertake costly efforts to control, assess and report on ESG metrics.

Some of these complex laws, rules and regulations – for example, those related to environmental, safety and health requirements – may particularly affect us in the jurisdictions in which we manufacture products, especially if such laws and regulations: require the use of abatement equipment beyond what we currently employ; require the addition or elimination of a material or process to or from our current manufacturing processes; or impose costs, fees or reporting requirements on the direct or indirect use of energy, natural resources, or materials or gases used or emitted into the environment in connection with the manufacture of our products. A substitute for a prohibited material or process might not be available, or might not be available at reasonable cost.

Our results of operations could be affected by changes in tax-related matters.

We have facilities in more than 30 countries and as a result are subject to taxation and audit by a number of taxing authorities. Tax rates vary among the jurisdictions in which we operate. If our tax rate increases, our results of operations could be adversely affected. A number of factors could cause our tax rate to increase, including a change in the jurisdictions in which our profits are earned and taxed; a change in the mix of profits from those jurisdictions; changes in available tax credits or deductions, including for amounts relating to stock compensation; changes in applicable tax rates; changes in tariff regulations or surcharges; changes in accounting principles; or adverse resolution of audits by taxing authorities. We have deferred tax assets on our balance sheet. Changes in applicable tax laws and regulations or in our business performance could affect our ability to realize those deferred tax assets, which could also affect our results of operations.

In addition, we are subject to laws and regulations in various jurisdictions that determine how much profit has been earned and when it is subject to taxation in that jurisdiction. These laws and regulations can be complex and subject to interpretation. Changes in these laws and regulations, including those that align with the Organisation for Economic Cooperation and Development's Base Erosion and Profit Shifting recommendations, could affect the locations where we are deemed to earn income, which could in turn affect our results of operations. Each quarter we forecast our tax expense based on our forecast of our performance for the year. If that performance forecast changes, our forecasted tax expense will change.

We have received and may in the future continue to receive government incentives, including but not limited to tax incentives, designed to encourage certain investments in our operations. We may be subject to increased scrutiny from government entities, shareholders and others on how these incentives are used and spent. Such incentives could be subject to reduction, modification, clawback or termination, and such changes to these incentives could adversely affect our results of operations, financial condition and reputation.

Our performance depends in part on our ability to enforce our intellectual property rights and to maintain freedom of operation.

Access to worldwide markets depends in part on the continued strength of our intellectual property portfolio in all jurisdictions where we conduct business. There can be no assurance that, as our business evolves, we will obtain the necessary intellectual property rights, or that we will be able to independently develop the technology, software or know-how necessary to conduct our business or that we can do so without infringing the intellectual property rights of others. To the extent that we have to rely on technology from others for which a license is required, there can be no assurance that we will be able to obtain such a license at all or on terms we consider reasonable. We, directly and indirectly, face infringement claims from third parties, including nonpracticing entities that have acquired patents to pursue enforcement actions against other companies. We also face infringement claims where we or our customers make, use or sell products and where the intellectual property laws may be less established or less predictable. These assertions, whether or not of any merit, expose us to claims for damages and/or injunctions from third parties, as well as claims for indemnification by our customers in instances where we have a contractual or other legal obligation to indemnify them against damages resulting from infringement claims.

We actively enforce and protect our own intellectual property rights. However, our efforts cannot prevent all misappropriation or improper use of our protected technology and information, including, for example, third parties' use of our patented or copyrighted technology, our trade secrets, or unauthorized copying and cloning, in their products without the right to do so, or third parties' sale of counterfeit products bearing our trademark. Activities such as those listed above may affect our reputation and impede our ability to sell our products. The laws of countries where we operate may not protect our intellectual property rights to the same extent as U.S. laws.

Risks related to our financing activities and other risks

Our debt could affect our operations and financial condition.

From time to time, we issue debt securities with various interest rates and maturities. While we believe we will have the ability to service this debt, our ability to make principal and interest payments when due depends upon our future performance, which will be subject to general economic conditions, industry cycles, and business and other factors affecting our operations, including our other risk factors, many of which are beyond our control. In addition, our obligation to make principal and interest payments could divert funds that otherwise might be invested in our operations or returned to shareholders, or could cause us to raise funds by, for example, issuing new debt or equity or selling assets.

Our results of operations and liquidity could be affected by changes in the financial markets.

We maintain bank accounts, a portfolio of investments, access to one or more revolving credit agreements and the ability to issue debt to support the financing needs of the company. Our ability to fund our operations, invest in our business, make strategic acquisitions, service our debt obligations and meet our cash return objectives depends upon continuous access to our bank and investment accounts, and may depend on access to our bank credit lines that support commercial paper borrowings and provide additional liquidity through short-term bank loans. If we are unable to access these accounts and credit lines (for example, due to instability in the financial markets), our results of operations and financial condition could be adversely affected and our ability to access the capital markets or redeem our investments could be restricted.

Material impairments of our goodwill could adversely affect our results of operations.

We have a significant amount of goodwill on our consolidated balance sheet. Charges associated with impairments of goodwill could adversely affect our financial condition and results of operations.

ITEM 1B. Unresolved staff comments

Not applicable.

ITEM 1C. Cybersecurity

Cybersecurity risk management and strategy

Our cybersecurity risk management is based on recognized cybersecurity industry frameworks and standards, including those of the National Institute of Standards and Technology, the Center for Internet Security Controls, and the International Organization for Standardization. We use these frameworks, together with information collected from internal assessments, to develop policies for use of our information assets (for example, TI business information and information resources such as mobile phones, computers and workstations), access to specific intellectual property or technologies, and protection of personal information. We protect these information assets through industry-standard techniques, such as multifactor authentication and malware defenses. We also work with internal stakeholders across the company to integrate foundational cybersecurity principles throughout our organization's operations, including employment of multiple layers of cybersecurity defenses, restricted access based on business need, and integrity of our business information. Throughout the year, we also regularly train our employees on cybersecurity awareness, confidential information protection and simulated phishing attacks.

We regularly engage third-party assessors to conduct penetration testing and measure our program to industry standard frameworks. We also have standing engagements with incident response experts and external counsel. We frequently collaborate with industry experts and cybersecurity practitioners at other companies to exchange information about potential cybersecurity threats, best practices and trends.

Our cybersecurity risk management extends to risks associated with our use of third-party service providers. For instance, we conduct risk and compliance assessments of third-party service providers that request access to our information assets.

Our cybersecurity risk management is an important part of our comprehensive business continuity program and enterprise risk management. Our global information security team periodically engages with a cross-functional group of subject matter experts and leaders to assess and refine our cybersecurity risk posture and preparedness. For example, we regularly evaluate and update contingency strategies for our business in the event that a portion of our information resources were to be unavailable due to a cybersecurity incident. We practice our response to potential cybersecurity incidents through regular tabletop exercises, threat hunting and red team exercises.

For more information about cybersecurity risks, see the Risk factors discussion in Item 1A of this Form 10-K.

Governance of cybersecurity risk management

The board of directors, as a whole, has oversight responsibility for our strategic and operational risks. The audit committee assists the board of directors with this responsibility by reviewing and discussing our risk assessment and risk management practices, including cybersecurity risks, with members of management. The audit committee, in turn, periodically reports on its review with the board of directors.

Management is responsible for day-to-day assessment and management of cybersecurity risks. Our chief information officer has primary oversight of material risks from cybersecurity threats. Our chief information officer is the senior vice president responsible for the Information Technology Solutions (ITS) organization and for information protection. Our chief information officer has more than 25 years of experience across various engineering, business and management roles, including serving as the vice president of the design and manufacturing ITS organization, leading the development and implementation of information technology strategies and roadmaps for manufacturing automation.

Our chief information security officer reports to our chief information officer. Our chief information security officer has more than 15 years of experience working in information technology-related roles, a degree in Information Technology, and Global Information Assurance Certifications in Security Essentials (GSEC) as an Intrusion Analyst (GCIA) and as a Penetration Tester (GPEN).

Our chief information officer and chief information security officer assess our cybersecurity readiness through internal assessment tools as well as third-party control tests, vulnerability assessments, audits and evaluation against industry standards. We have governance and compliance structures that are designed to elevate issues relating to cybersecurity to our chief information officer and chief information security officer, such as potential threats or vulnerabilities. We also employ various defensive and continuous monitoring techniques using recognized industry frameworks and cybersecurity standards.

Our chief information officer meets with the audit committee periodically to review our information technology systems and discuss key cybersecurity risks. In addition, the chief financial officer reviews with the audit committee at least annually our global enterprise risk management program, which includes cybersecurity risks, and is also reported to the board.

ITEM 2. Properties

Our principal executive offices are located at 12500 TI Boulevard, Dallas, Texas. The following table indicates the general location of our principal manufacturing and design operations and the reportable segments that make major use of them. Except as otherwise indicated, we own these facilities.

	Analog	Embedded Processing
North Texas (Dallas, Richardson and Sherman)	X	X
Lehi, Utah	X	X
South Portland, Maine	X	
Santa Clara, California	X	
Houston, Texas		X
Tucson, Arizona	X	
Chengdu, China *	X	X
Shanghai, China **	X	X
Freising, Germany	X	X
Bangalore, India *	X	X
Aizu, Japan	X	X
Miho, Japan	X	X
Kuala Lumpur, Malaysia *	X	X
Melaka, Malaysia *	X	
Aguascalientes, Mexico **	X	
Baguio, Philippines *	X	X
Pampanga (Clark), Philippines *	X	X
Taipei, Taiwan *	X	X

* Portions of the facilities are leased and owned. This may include land leases.

** Leased.

Our facilities in the United States contained approximately 16.1 million square feet at December 31, 2023, of which approximately 0.4 million square feet were leased. Our facilities outside the United States contained approximately 12.7 million square feet at December 31, 2023, of which approximately 2.4 million square feet were leased.

At the end of 2023, we occupied substantially all of the space in our facilities.

Leases covering our currently occupied leased facilities expire at varying dates, generally within the next five years. We believe our current properties are suitable and adequate for their intended purpose.

ITEM 3. Legal proceedings

We are involved in various inquiries and proceedings that arise in the ordinary course of our business. We believe that the amount of our liability, if any, will not have a material adverse effect upon our financial condition, results of operations or liquidity.

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

TI common stock is quoted on The Nasdaq Global Select Market under the ticker symbol TXN. At December 31, 2023, we had 11,261 stockholders of record.

The following table contains information regarding our purchases of our common stock during the fourth quarter of 2023.

Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs (a)	Approximate Dollar Value of Shares that May Yet Be Purchased Under the Plans or Programs (a)
October 1, 2023 through October 31, 2023	329,147	\$ 149.62	318,738	\$ 21.21 billion
November 1, 2023 through November 30, 2023	76,200	148.19	76,200	21.20 billion
December 1, 2023 through December 31, 2023	17,652	157.14	17,652	21.20 billion
Total	422,999 (b)	\$ 149.67 (b)	412,590	\$ 21.20 billion (c)

- (a) All open-market purchases during the quarter were made under the authorizations from our board of directors to purchase up to \$12.0 billion and \$15.0 billion of additional shares of TI common stock announced September 20, 2018, and September 15, 2022, respectively.
- (b) In addition to open-market purchases, 10,409 shares of common stock were surrendered by employees to satisfy tax withholding obligations in connection with the vesting of restricted stock units.
- (c) As of December 31, 2023, this amount consisted of the remaining portion of the \$12.0 billion authorized in September 2018 and the \$15.0 billion authorized in September 2022. No expiration date has been specified for these authorizations.

ITEM 6. [Reserved]

ITEM 7. Management's discussion and analysis of financial condition and results of operations

Overview

We design and manufacture semiconductors that we sell to electronics designers and manufacturers all over the world. Technology is the foundation of our company, but ultimately, our objective and the best metric for owners to measure our progress is through the growth of free cash flow per share over the long term.

Our strategy to maximize long-term free cash flow per share growth has three elements:

1. A great business model that is focused on analog and embedded processing products and built around four sustainable competitive advantages. The four sustainable competitive advantages are powerful in combination and provide tangible benefits:
 - (a) A strong foundation of manufacturing and technology that provides lower costs and greater control of our supply chain.
 - (b) A broad portfolio of analog and embedded processing products that offers more opportunity per customer and more value for our investments.
 - (c) The reach of our market channels that gives access to more customers and more of their design projects, leading to the opportunity to sell more of our products into each design and gives us better insight and knowledge of customer needs.
 - (d) Diversity and longevity of our products, markets and customer positions that provide less single point dependency and longer returns on our investments.

Together, these competitive advantages help position TI in a unique class of companies capable of generating and returning significant amounts of cash for our owners. We make our investments with an eye towards long-term strengthening and leveraging of these advantages.
2. Discipline in allocating capital to the best opportunities. This spans how we select R&D projects, develop new capabilities like TI.com, invest in new manufacturing capacity or how we think about acquisitions and returning cash to our owners.
3. Efficiency, which means constantly striving for more output for every dollar spent.

We believe that our business model with the combined effect of our four competitive advantages sets TI apart from our peers and will for a long time to come. We will invest to strengthen our competitive advantages, be disciplined in capital allocation and stay diligent in our pursuit of efficiencies. Finally, we will remain focused on the belief that long-term growth of free cash flow per share is the ultimate measure to generate value.

Management's discussion and analysis of financial condition and results of operations (MD&A) should be read in conjunction with the financial statements and the related notes that appear elsewhere in this document. In the following discussion of our results of operations:

- Our segments represent groups of similar products that are combined on the basis of similar design and development requirements, product characteristics, manufacturing processes and distribution channels, and how management allocates resources and measures results. See Note 1 to the financial statements for more information regarding our segments.
- When we discuss our results:
 - Unless otherwise noted, changes in our revenue are attributable to changes in customer demand, which are evidenced by fluctuations in shipment volumes.
 - New products do not tend to have a significant impact on our revenue in any given period because we sell such a large number of products.
 - From time to time, our revenue and gross profit are affected by changes in demand for higher-priced or lower-priced products, which we refer to as changes in the "mix" of products shipped.

- Because we own much of our manufacturing capacity, a significant portion of our operating cost is fixed. When factory loadings decrease, our fixed costs are spread over reduced output and, absent other circumstances, our profit margins decrease. Conversely, as factory loadings increase, our fixed costs are spread over increased output and, absent other circumstances, our profit margins increase.
- For an explanation of free cash flow, see the Non-GAAP financial information section.
- All dollar amounts in the tables are stated in millions of U.S. dollars.

Our results of operations provides details of our financial results for 2023 and 2022 and year-to-year comparisons between 2023 and 2022. Discussion 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 the Company’s Annual Report on Form 10-K for the year ended December 31, 2022.

Results of operations

Our strategic focus is on analog and embedded processing products. We sell our products into six end markets: industrial, automotive, personal electronics, communications equipment, enterprise systems and other. While all of these end markets represent good opportunities, we place additional strategic emphasis on designing and selling our products into the industrial and automotive markets, which we believe represent the best long-term growth opportunities.

Our focus on analog and embedded processing allows us to generate strong cash flow from operations. Our cash flow from operations of \$6.42 billion underscored the strength of our business model, the quality of our product portfolio and the benefit of 300mm production. Free cash flow was \$1.35 billion and represented 7.7% of revenue. During 2023, we invested \$3.69 billion in R&D and SG&A, invested \$5.07 billion in capital expenditures and returned \$4.85 billion to shareholders.

Details of financial results – 2023 compared with 2022

Revenue of \$17.52 billion decreased \$2.51 billion, or 12.5%, primarily due to lower revenue from Analog, partially offset by higher revenue from Embedded Processing.

Gross profit of \$11.02 billion was down \$2.75 billion, or 20.0%, primarily due to lower revenue and, to a lesser extent, higher manufacturing costs associated with planned capacity expansion and reduced factory loadings. As a percentage of revenue, gross profit decreased to 62.9% from 68.8%.

Operating expenses (R&D and SG&A) were \$3.69 billion compared with \$3.37 billion. This increase was primarily due to higher employee-related costs as we invest to strengthen our competitive advantages.

Restructuring charges/other in the year-ago period was \$257 million due to preproduction costs at our Lehi, Utah, manufacturing facility. These costs transitioned primarily to cost of revenue after production began in December 2022. See Note 11 to the financial statements.

Operating profit was \$7.33 billion, or 41.8% of revenue, compared with \$10.14 billion, or 50.6% of revenue.

Other income and expense (OI&E) was \$440 million of income compared with \$106 million of income, due to higher interest income. See Note 11 to the financial statements.

Interest and debt expense of \$353 million increased \$139 million due to the issuance of additional long-term debt. See Note 8 to the financial statements.

Our provision for income taxes was \$908 million compared with \$1.28 billion. This decrease was due to lower income before income taxes. Our effective tax rate, which includes discrete tax items, was 12.2% in 2023 compared with 12.8% in 2022. See Note 4 to the financial statements for a reconciliation of the U.S. statutory corporate tax rate to our effective tax rate.

Net income was \$6.51 billion compared with \$8.75 billion. EPS was \$7.07 compared with \$9.41.

Segment results – 2023 compared with 2022

Analog (includes Power and Signal Chain product lines)

	2023	2022	Change
Revenue	\$ 13,040	\$ 15,359	(15) %
Operating profit	5,821	8,359	(30) %
Operating profit % of revenue	44.6 %	54.4 %	

Analog revenue decreased in both product lines about equally. Operating profit decreased primarily due to lower revenue and higher manufacturing costs.

Embedded Processing (includes microcontrollers and processors)

	2023	2022	Change
Revenue	\$ 3,368	\$ 3,261	3 %
Operating profit	1,008	1,253	(20) %
Operating profit % of revenue	29.9 %	38.4 %	

Embedded Processing revenue increased due to the mix of products shipped. Operating profit decreased primarily due to higher manufacturing costs, partially offset by higher revenue.

Other (includes DLP® products, calculators and custom ASIC products)

	2023	2022	Change
Revenue	\$ 1,111	\$ 1,408	(21) %
Operating profit *	502	528	(5) %
Operating profit % of revenue	45.2 %	37.5 %	

* Includes restructuring charges/other

Other revenue decreased \$297 million, and operating profit decreased \$26 million.

Financial condition

At the end of 2023, total cash (cash and cash equivalents plus short-term investments) was \$8.58 billion, a decrease of \$492 million from the end of 2022.

Accounts receivable were \$1.79 billion, a decrease of \$108 million compared with the end of 2022. Days sales outstanding at the end of 2023 were 39 compared with 37 at the end of 2022.

Inventory was \$4.00 billion, an increase of \$1.24 billion from the end of 2022. Days of inventory at the end of 2023 were 219 compared with 157 at the end of 2022.

Liquidity and capital resources

Our primary source of liquidity is cash flow from operations. Additional sources of liquidity are cash and cash equivalents, short-term investments and access to debt markets. We also have a variable-rate, revolving credit facility. As of December 31, 2023, our credit facility was undrawn, and we had no commercial paper outstanding. Cash flows from operating activities for 2023 were \$6.42 billion, a decrease of \$2.30 billion due to lower net income and higher cash used for working capital, as we continued to strategically build inventory.

Investing activities for 2023 used \$4.36 billion compared with \$3.58 billion in 2022. Capital expenditures were \$5.07 billion compared with \$2.80 billion in 2022 and were primarily for semiconductor manufacturing equipment and facilities in both periods. Short-term investments provided cash proceeds of \$682 million in 2023 compared with \$826 million of cash used in 2022.

As we continue to invest to strengthen our competitive advantage in manufacturing and technology as part of our long-term capacity planning, our capital expenditures are expected to continue to be higher than historical levels. In August 2022, the U.S. government enacted the U.S. CHIPS and Science Act, which provides funding for manufacturing grants and research investments and establishes a 25% investment tax credit for certain investments in U.S. semiconductor manufacturing. We expect to receive the cash benefit associated with the investment tax credit for qualifying capital expenditures in future periods, and we have submitted applications for the manufacturing grants provided by the legislation. See Note 11 to the financial statements.

Financing activities for 2023 used \$2.14 billion compared with \$6.72 billion in 2022. In 2023, we received net proceeds of \$3.00 billion from the issuance of fixed-rate, long-term debt and retired maturing debt of \$500 million. In 2022, we received net proceeds of \$1.49 billion from the issuance of fixed-rate, long-term debt and retired maturing debt of \$500 million. Dividends paid in 2023 were \$4.56 billion compared with \$4.30 billion in 2022, reflecting an increased dividend rate. We used \$293 million to repurchase 1.8 million shares of our common stock compared with \$3.62 billion used in 2022 to repurchase 22.2 million shares. Employee exercises of stock options provided cash proceeds of \$263 million compared with \$241 million in 2022.

We had \$2.96 billion of cash and cash equivalents and \$5.61 billion of short-term investments as of December 31, 2023. We believe we have the necessary financial resources and operating plans to fund our working capital needs, capital expenditures, dividend and debt-related payments and other business requirements for at least the next 12 months.

Non-GAAP financial information

This MD&A includes references to free cash flow and ratios based on that measure. These are financial measures that were not prepared in accordance with generally accepted accounting principles in the United States (GAAP). Free cash flow was calculated by subtracting capital expenditures from the most directly comparable GAAP measure, cash flows from operating activities (also referred to as cash flow from operations).

We believe that free cash flow and the associated ratios provide insight into our liquidity, our cash-generating capability and the amount of cash potentially available to return to shareholders, as well as insight into our financial performance. These non-GAAP measures are supplemental to the comparable GAAP measures.

Reconciliation to the most directly comparable GAAP measures is provided in the table below.

	For Years Ended December 31,			
	2023		2022	
Cash flow from operations (GAAP)	\$ 6,420		\$ 8,720	
Capital expenditures	(5,071)		(2,797)	
Free cash flow (non-GAAP)	\$ 1,349		\$ 5,923	
Revenue	\$ 17,519		\$ 20,028	
Cash flow from operations as a percentage of revenue (GAAP)	36.6 %		43.5 %	
Free cash flow as a percentage of revenue (non-GAAP)	7.7 %		29.6 %	

Critical accounting estimates

Our accounting policies are more fully described in Note 2 of the consolidated financial statements. As disclosed in Note 2, the preparation of consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions about future events that affect the amounts reported in the financial statements and accompanying notes. Management believes it is unlikely that applying other estimates and assumptions would have a material impact on the financial statements. We consider the following accounting policies to be those that are most important to the portrayal of our financial condition and that require a higher degree of judgment.

Income taxes

In determining net income for financial statement purposes, we must make certain estimates and judgments in the calculation of tax provisions and the resultant tax liabilities and in the recoverability of deferred tax assets that arise from temporary differences between the tax and financial statement recognition of revenue and expense.

In the ordinary course of global business, there may be many transactions and calculations where the ultimate tax outcome is uncertain. The calculation of tax liabilities involves dealing with uncertainties in the interpretation and application of complex tax laws, and significant judgment is necessary to (i) determine whether, based on the technical merits, a tax position is more likely than not to be sustained and (ii) measure the amount of tax benefit that qualifies for recognition. We recognize potential liabilities for anticipated tax audit issues in the United States and other tax jurisdictions based on an estimate of the ultimate resolution of whether, and the extent to which, additional taxes will be due. Although we believe the estimates are reasonable, no assurance can be given that the final outcome of these matters will not be different from what is reflected in the historical income tax provisions and accruals.

Inventory valuation allowances

Inventory is valued net of allowances for unsalable or obsolete raw materials, work in process and finished goods. Statistical allowances are determined quarterly for raw materials and work in process based on historical disposals of inventory for salability and obsolescence reasons. For finished goods, quarterly statistical allowances are determined by comparing inventory levels of individual parts to historical shipments, current backlog and estimated future sales in order to identify inventory considered unlikely to be sold. A specific allowance for each material type will be carried if there is a significant event not captured by the statistical allowance, such as an end-of-life part or demand with imminent risk of cancellation. Allowances are also calculated quarterly for instances where inventoried costs for individual products are in excess of the net realizable value for those products. Actual future write-offs of inventory for salability and obsolescence reasons may differ from estimates and calculations used to determine valuation allowances due to changes in customer demand, customer negotiations, technology shifts and other factors.

Commitments and contingencies

See Note 10 to the financial statements for a discussion of our commitments and contingencies.

ITEM 7A. Quantitative and qualitative disclosures about market risk

Foreign exchange risk

The U.S. dollar is our functional currency for financial reporting. Our non-U.S. entities own assets or liabilities denominated in U.S. dollars or other currencies, and exchange rate fluctuations in those jurisdictions may impact our effective tax rate.

Our balance sheet also reflects amounts remeasured from non-U.S. dollar currencies. Because most of the aggregate non-U.S. dollar balance sheet exposure is hedged by forward currency exchange contracts, which are based on year-end 2023 balances and currency exchange rates, a hypothetical 10% plus or minus fluctuation in non-U.S. currency exchange rates relative to the U.S. dollar would result in a pretax currency exchange gain or loss of approximately \$4 million.

We use these forward currency exchange contracts to reduce the earnings impact that exchange rate fluctuations may have on our non-U.S. dollar net balance sheet exposures. As of December 31, 2023, we had forward currency exchange contracts outstanding with a notional value of \$328 million to hedge net balance sheet exposures (including \$102 million to sell Japanese yen, \$77 million to sell British pounds and \$58 million to buy Chinese yuan). Similar hedging activities existed at year-end 2022.

Interest rate risk

We have the following potential exposure to changes in interest rates: (i) the effect of changes in interest rates on the fair value of our investments in cash equivalents and short-term investments, which could produce a gain or a loss; and (ii) the effect of changes in interest rates on the fair value of our debt.

As of December 31, 2023, a hypothetical 100 basis point increase in interest rates would decrease the fair value of our investments in cash equivalents and short-term investments by about \$22 million and decrease the fair value of our long-term debt by \$891 million. Because interest rates on our long-term debt are fixed, changes in interest rates would not affect the cash flows associated with long-term debt.

Equity risk

Long-term investments at year-end 2023 include the following:

- *Investments in mutual funds* – includes mutual funds that were selected to generate returns that offset changes in certain liabilities related to deferred compensation arrangements. The mutual funds hold a variety of debt and equity investments.
- *Investments in venture capital funds* – includes investments in limited partnerships (accounted for under either the equity method or at cost with adjustments to observable market changes or impairments).
- *Equity investments* – includes nonmarketable (nonpublicly traded) equity securities.

Investments in mutual funds are stated at fair value. Changes in prices of the mutual fund investments are expected to offset related changes in certain deferred compensation liabilities. Nonmarketable equity securities and certain venture capital funds are stated at cost minus impairment, if any, plus or minus changes resulting from qualifying observable price changes. Investments in the remaining venture capital funds are stated using the equity method. See Note 6 to the financial statements for details of equity and other long-term investments.

We also utilize total return swaps to economically hedge exposure to changes in liabilities related to the market risks of certain deferred compensation arrangements with employees. Gains or losses from changes in the fair value of these total return swaps generally offset the related losses or gains on the deferred compensation liabilities.

ITEM 8. Financial statements and supplementary data

List of financial statements:

- Income for each of the three years in the period ended December 31, 2023.
- Comprehensive income for each of the three years in the period ended December 31, 2023.
- Balance sheets as of December 31, 2023 and 2022.
- Cash flows for each of the three years in the period ended December 31, 2023.
- Stockholders' equity for each of the three years in the period ended December 31, 2023.
- Reports of independent registered public accounting firm (PCAOB ID: 42).

Schedules have been omitted because the required information is not present or not present in amounts sufficient to require submission of the schedule or because the information required is included in the consolidated financial statements or the notes thereto.

Consolidated Statements of Income				For Years Ended December 31,			
(In millions, except per-share amounts)		2023		2022		2021	
Revenue		\$ 17,519		\$ 20,028		\$ 18,344	
Cost of revenue (COR)		6,500		6,257		5,968	
Gross profit		11,019		13,771		12,376	
Research and development (R&D)		1,863		1,670		1,554	
Selling, general and administrative (SG&A)		1,825		1,704		1,666	
Acquisition charges		—		—		142	
Restructuring charges/other		—		257		54	
Operating profit		7,331		10,140		8,960	
Other income (expense), net (OI&E)		440		106		143	
Interest and debt expense		353		214		184	
Income before income taxes		7,418		10,032		8,919	
Provision for income taxes		908		1,283		1,150	
Net income		\$ 6,510		\$ 8,749		\$ 7,769	
Earnings per common share (EPS):							
Basic		\$ 7.13		\$ 9.51		\$ 8.38	
Diluted		\$ 7.07		\$ 9.41		\$ 8.26	
Average shares outstanding:							
Basic		908		916		923	
Diluted		916		926		936	
A portion of net income is allocated to unvested restricted stock units (RSUs) on which we pay dividend equivalents. Diluted EPS is calculated using the following:							
Net income		\$ 6,510		\$ 8,749		\$ 7,769	
Income allocated to RSUs		(33)		(39)		(33)	
Income allocated to common stock for diluted EPS		\$ 6,477		\$ 8,710		\$ 7,736	

See accompanying notes.

Consolidated Statements of Comprehensive Income		For Years Ended December 31,					
(In millions)		2023		2022		2021	
Net income		\$ 6,510		\$ 8,749		\$ 7,769	
Other comprehensive income (loss)							
Net actuarial losses of defined benefit plans:							
Adjustments, net of tax effect of (\$9), \$48 and (\$56)		27		(155)		175	
Recognized within net income, net of tax effect of (\$5), (\$17) and (\$8)		15		61		29	
Prior service cost (credit) of defined benefit plans:							
Recognized within net income, net of tax effect of \$0, \$0 and \$0		1		(1)		(1)	
Derivative instruments:							
Change in fair value, net of tax effect of \$0, \$0 and \$0		1		1		—	
Available-for-sale investments:							
Unrealized gains (losses), net of tax effect of (\$1), \$1 and \$0		5		(3)		—	
Other comprehensive income (loss), net of taxes		49		(97)		203	
Total comprehensive income		\$ 6,559		\$ 8,652		\$ 7,972	

See accompanying notes.

Consolidated Balance Sheets		December 31,	
(In millions, except par value)		2023	2022
Assets			
Current assets:			
Cash and cash equivalents	\$	2,964	\$ 3,050
Short-term investments		5,611	6,017
Accounts receivable, net of allowances of (\$16) and (\$13)		1,787	1,895
Raw materials		420	353
Work in process		2,109	1,546
Finished goods		1,470	858
Inventories		3,999	2,757
Prepaid expenses and other current assets		761	302
Total current assets		15,122	14,021
Property, plant and equipment at cost		13,268	9,950
Accumulated depreciation		(3,269)	(3,074)
Property, plant and equipment		9,999	6,876
Goodwill		4,362	4,362
Deferred tax assets		757	473
Capitalized software licenses		223	152
Overfunded retirement plans		173	188
Other long-term assets		1,712	1,135
Total assets	\$	32,348	\$ 27,207
Liabilities and stockholders' equity			
Current liabilities:			
Current portion of long-term debt	\$	599	\$ 500
Accounts payable		802	851
Accrued compensation		836	799
Income taxes payable		172	189
Accrued expenses and other liabilities		911	646
Total current liabilities		3,320	2,985
Long-term debt		10,624	8,235
Underfunded retirement plans		108	118
Deferred tax liabilities		63	66
Other long-term liabilities		1,336	1,226
Total liabilities		15,451	12,630
Stockholders' equity:			
Preferred stock, \$25 par value. Shares authorized – 10; none issued		—	—
Common stock, \$1 par value. Shares authorized – 2,400; shares issued – 1,741		1,741	1,741
Paid-in capital		3,362	2,951
Retained earnings		52,283	50,353
Treasury common stock at cost			
Shares: 2023 – 832; 2022 – 835		(40,284)	(40,214)
Accumulated other comprehensive income (loss), net of taxes (AOCI)		(205)	(254)
Total stockholders' equity		16,897	14,577

See accompanying notes.

Consolidated Statements of Cash Flows				For Years Ended December 31,			
(In millions)		2023		2022		2021	
Cash flows from operating activities							
Net income		\$ 6,510		\$ 8,749		\$ 7,769	
Adjustments to net income:							
Depreciation		1,175		925		755	
Amortization of acquisition-related intangibles		—		—		142	
Amortization of capitalized software		63		54		57	
Stock compensation		362		289		230	
Gains on sales of assets		—		(3)		(57)	
Deferred taxes		(299)		(191)		15	
Increase (decrease) from changes in:							
Accounts receivable		108		(194)		(287)	
Inventories		(1,242)		(847)		45	
Prepaid expenses and other current assets		46		6		57	
Accounts payable and accrued expenses		(33)		106		33	
Accrued compensation		29		22		7	
Income taxes payable		(7)		94		(20)	
Changes in funded status of retirement plans		45		114		62	
Other		(337)		(404)		(52)	
Cash flows from operating activities		6,420		8,720		8,756	
Cash flows from investing activities							
Capital expenditures		(5,071)		(2,797)		(2,462)	
Proceeds from asset sales		3		3		75	
Purchases of short-term investments		(12,705)		(14,483)		(10,124)	
Proceeds from short-term investments		13,387		13,657		8,478	
Other		24		37		(62)	
Cash flows from investing activities		(4,362)		(3,583)		(4,095)	
Cash flows from financing activities							
Proceeds from issuance of long-term debt		3,000		1,494		1,495	
Repayment of debt		(500)		(500)		(550)	
Dividends paid		(4,557)		(4,297)		(3,886)	
Stock repurchases		(293)		(3,615)		(527)	
Proceeds from common stock transactions		263		241		377	
Other		(57)		(41)		(46)	
Cash flows from financing activities		(2,144)		(6,718)		(3,137)	
Net change in cash and cash equivalents		(86)		(1,581)		1,524	
Cash and cash equivalents at beginning of period		3,050		4,631		3,107	
Cash and cash equivalents at end of period		\$ 2,964		\$ 3,050		\$ 4,631	

See accompanying notes.

Consolidated Statements of Stockholders' Equity										
		Common Stock		Paid-in Capital		Retained Earnings		Treasury Common Stock		AOCI
(In millions, except per-share amounts)										
Balance, December 31, 2020		\$ 1,741		\$ 2,333		\$ 42,051		\$ (36,578)		\$ (360)
2021										
Net income		—		—		7,769		—		—
Dividends declared and paid (\$4.21 per share)		—		—		(3,886)		—		—
Common stock issued for stock-based awards		—		67		—		310		—
Stock repurchases		—		—		—		(532)		—
Stock compensation		—		230		—		—		—
Other comprehensive income (loss), net of taxes		—		—		—		—		203
Dividend equivalents on RSUs		—		—		(15)		—		—
Balance, December 31, 2021		1,741		2,630		45,919		(36,800)		(157)
2022										
Net income		—		—		8,749		—		—
Dividends declared and paid (\$4.69 per share)		—		—		(4,297)		—		—
Common stock issued for stock-based awards		—		35		—		206		—
Stock repurchases		—		—		—		(3,620)		—
Stock compensation		—		289		—		—		—
Other comprehensive income (loss), net of taxes		—		—		—		—		(97)
Dividend equivalents on RSUs		—		—		(18)		—		—
Other		—		(3)		—		—		—

See accompanying notes.

Notes to financial statements

1. Description of business, including segment and geographic area information

We design and manufacture semiconductors that we sell to electronics designers and manufacturers all over the world. We have two reportable segments, Analog and Embedded Processing, each of which represents groups of similar products that are combined on the basis of similar design and development requirements, product characteristics, manufacturing processes and distribution channels. Our segments also reflect how management allocates resources and measures results.

- Analog semiconductors change real-world signals, such as sound, temperature, pressure or images, by conditioning them, amplifying them and often converting them to a stream of digital data that can be processed by other semiconductors, such as embedded processors. Analog semiconductors are also used to manage power in all electronic equipment by converting, distributing, storing, discharging, isolating and measuring electrical energy, whether the equipment is plugged into a wall or using a battery. Our Analog segment consists of two major product lines: Power and Signal Chain.
- Embedded Processing products are the digital “brains” of many types of electronic equipment. They are designed to handle specific tasks and can be optimized for various combinations of performance, power and cost, depending on the application.

We report the results of our remaining business activities in Other. Other includes operating segments that do not meet the quantitative thresholds for individually reportable segments and cannot be aggregated with other operating segments. Other includes DLP® products, calculators and custom ASIC products.

In Other, we also include items that are not used in evaluating the results of or in allocating resources to our segments. Examples of these items include acquisition, integration and restructuring charges (see Note 11); and certain corporate-level items, such as litigation expenses, environmental costs, insurance settlements, and gains and losses from other activities, including asset dispositions. We allocate the remainder of our expenses associated with corporate activities to our operating segments based on specific methodologies, such as percentage of operating expenses or headcount.

Our centralized manufacturing and support organizations, such as facilities, procurement and logistics, provide support to our operating segments, including those in Other. Costs incurred by these organizations, including depreciation, are charged to the segments on a per-unit basis. Consequently, depreciation expense is not an independently identifiable component within the segments' results and, therefore, is not provided.

With the exception of goodwill, we do not identify or allocate assets by operating segment, nor does the chief operating decision maker evaluate operating segments using discrete asset information. We have no material intersegment revenue. The accounting policies of the segments are consistent with those described in the summary of significant accounting policies and practices.

Segment information

|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Geographic area information

Our estimate for revenue based on the geographic location of our end customers' headquarters, which represents where critical decisions are made, is as follows:

	For Years Ended December 31,																		
	2023						2022						2021						
Revenue:																			
United States	\$	5,814			33 %		\$	6,609			33 %		\$	6,237			34 %		
China		3,293			19			4,807			24			4,586			25		
Rest of Asia		1,721			10			2,003			10			2,018			11		
Europe, Middle East and Africa (a)		4,642			26			4,807			24			3,852			21		
Japan		1,782			10			1,602			8			1,468			8		
Rest of world		267			2			200			1			183			1		
Total revenue	\$	17,519			100 %		\$	20,028			100 %		\$	18,344			100 %		

- (a) Revenue from end customers headquartered in Germany was 13%, 11% and 9% of total revenue in 2023, 2022 and 2021, respectively.

Property, plant and equipment by geographic area, based on physical location:

[illegible]

Major customer

No end customer accounted for 10% or more of revenue in 2023, 2022 or 2021.

2. Basis of presentation and significant accounting policies and practices

Basis of presentation

The consolidated financial statements have been prepared in accordance with generally accepted accounting principles in the United States (GAAP). The basis of these financial statements is comparable for all periods presented herein.

The consolidated financial statements include the accounts of all subsidiaries. All intercompany balances and transactions have been eliminated in consolidation. All dollar and share amounts in the financial statements and tables in these notes, except per-share amounts, are presented in millions unless otherwise indicated. We have reclassified certain amounts in the prior periods' financial statements to conform to the 2023 presentation.

The preparation of financial statements requires the use of estimates from which final results may vary.

Significant accounting policies and practices

Revenue recognition

We generate revenue primarily from the sale of semiconductor products, either directly to a customer or to a distributor, and recognize revenue when control is transferred. Control is considered transferred when title and risk of loss pass, when the customer becomes obligated to pay and, where required, when the customer has accepted the products. This transfer generally occurs at a point in time upon shipment or delivery to the customer or distributor, depending upon the terms of the sales order. Payment for sales to customers and distributors is generally due on our standard commercial terms. For sales to distributors, payment is not contingent upon resale of the products.

Revenue from sales of our products that are subject to inventory consignment agreements is recognized at a point in time, when the customer or distributor pulls product from consignment inventory that we store at designated locations. Delivery and transfer of control occur at that point, when title and risk of loss transfers and the customer or distributor becomes obligated to pay for the products pulled from inventory. Until the products are pulled for use or sale by the customer or distributor, we retain control over the products' disposition, including the right to pull back or relocate the products.

The revenue recognized is adjusted based on allowances, which are prepared on a portfolio basis using a most likely amount methodology based on analysis of historical data and contractual terms. These allowances, which are not material, generally include adjustments for pricing arrangements, product returns and incentives. We recognize shipping fees received from customers, if any, in revenue. We include the related shipping and handling costs in cost of revenue. The majority of our customers pay these fees directly to third parties.

Advertising costs

We expense advertising and other promotional costs as incurred. This expense was \$28 million, \$27 million and \$27 million in 2023, 2022 and 2021, respectively.

Income taxes

We account for income taxes using an asset and liability approach. We record the amount of taxes payable or refundable for the current year and the deferred tax assets and liabilities for future tax consequences related to events that have been recognized in the financial statements or tax returns. We record a valuation allowance when it is more likely than not that some or all of the deferred tax assets will not be realized.

Other assessed taxes

Some transactions require us to collect taxes such as sales, value-added and excise taxes from our customers. These transactions are presented in our Consolidated Statements of Income on a net (excluded from revenue) basis.

Leases

We determine if an arrangement is a lease at inception. Leases are included in other long-term assets, accrued expenses and other liabilities, and other long-term liabilities on our Consolidated Balance Sheets.

Lease assets represent our right to use underlying assets for the lease term, and lease liabilities represent our obligations to make lease payments over the lease term. On the commencement date, leases are evaluated for classification, and assets and liabilities are recognized based on the present value of lease payments over the lease term. We use our incremental borrowing rate based on the information available at commencement in determining the present value of lease payments. Operating lease expense is generally recognized on a straight-line basis over the lease term. Our lease values include options to extend or terminate the lease when it is reasonably certain that we will exercise such options.

We have agreements with lease and non-lease components, which are accounted for as a single lease component. Leases with an initial lease term of 12 months or less are not recorded on the balance sheet; we recognize lease expense for these leases on a straight-line basis over the lease term.

Earnings per share (EPS)

We use the two-class method for calculating EPS because the restricted stock units (RSUs) we grant are participating securities containing nonforfeitable rights to receive dividend equivalents. Under the two-class method, a portion of net income is allocated to RSUs and excluded from the calculation of income allocated to common stock.

Computation and reconciliation of earnings per common share are as follows:

|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Potentially dilutive securities representing 10 million, 5 million and 3 million shares of common stock that were outstanding in 2023, 2022 and 2021, respectively, were excluded from the computation of diluted earnings per common share during these periods because their effect would have been anti-dilutive.

Investments

We present investments on our Consolidated Balance Sheets as cash equivalents, short-term investments or other long-term assets. See Note 6 for additional information.

- *Cash equivalents and short-term investments* – The primary objectives of our cash equivalent and short-term investment activities are to preserve capital and maintain liquidity while generating appropriate returns. We consider investments in available-for-sale debt securities with maturities of 90 days or less from the date of our investment to be cash equivalents. We consider investments in available-for-sale debt securities with maturities beyond 90 days from the date of our investment as being available for use in current operations and include them in short-term investments.
- *Other long-term assets* – Long-term investments, which are included within other long-term assets on our Consolidated Balance Sheets, consist of mutual funds, venture capital funds and nonmarketable securities.

Inventories

Inventories are stated at the lower of cost or estimated net realizable value. Cost is generally computed on a currently adjusted standard cost basis, which approximates cost on a first-in, first-out basis. Standard cost is based on the normal utilization of installed factory capacity. Cost associated with underutilization of capacity is expensed as incurred. Inventory held at consignment locations is included in our finished goods inventory.

We review inventory quarterly for salability and obsolescence. A statistical allowance is provided for inventory considered unlikely to be sold. The statistical allowance is based on an analysis of historical disposal activity, historical customer shipments, as well as estimated future sales. A specific allowance for each material type will be carried if there is a significant event not captured by the statistical allowance. We write off inventory in the period in which disposal occurs.

Government incentives

Incentives provided by government entities are recognized when we have reasonable assurance that we will comply with the conditions of the incentive, if any, and the incentive will be received. Incentives, which include non-income tax incentives, related to the acquisition or construction of fixed assets are recognized as a reduction in the carrying amounts of the related assets and reduce depreciation expense over the useful lives of the assets. Incentives for specific operating activities are offset against the related expense in the period the expense is incurred.

In August 2022, the U.S. government enacted the U.S. CHIPS and Science Act, which provides funding for manufacturing grants and research investments, and it establishes a 25% investment tax credit for certain investments in U.S. semiconductor manufacturing. As of December 31, 2023, we have recognized \$1.36 billion of receivables with a corresponding reduction to the carrying amounts of the qualifying manufacturing assets. The receivables are comprised of \$497 million in prepaid expenses and other current assets and \$859 million in other long-term assets. See Note 11 for additional information.

In 2023, cost of revenue benefited by \$45 million from the investment tax credit, recognized as a reduction of depreciation expense.

Property, plant and equipment; acquisition-related intangibles; and other capitalized costs

Property, plant and equipment are stated at cost and depreciated over their estimated useful lives using the straight-line method. Our cost basis includes certain assets acquired in business combinations that were initially recorded at fair value as of the date of acquisition. Leasehold improvements are amortized using the straight-line method over the shorter of the remaining lease term or the estimated useful lives of the improvements. We amortize acquisition-related intangibles on a straight-line basis over the estimated economic life of the assets. Capitalized software licenses are generally amortized on a straight-line basis over the term of the license. Fully depreciated or amortized assets are written off against accumulated depreciation or amortization.

Impairments of long-lived assets

We regularly review whether facts or circumstances exist that indicate the carrying values of property, plant and equipment or other long-lived assets, including intangible assets, are impaired. We assess the recoverability of assets by comparing the projected undiscounted net cash flows associated with those assets to their respective carrying amounts. Any impairment charge is based on the excess of the carrying amount over the fair value of those assets. Fair value is determined by available market valuations, if applicable, or by discounted cash flows.

Goodwill

Goodwill is reviewed for impairment annually in the fourth quarter or more frequently if certain impairment indicators arise. We perform a qualitative assessment to determine if it is more likely than not that the fair value of a reporting unit is less than its carrying value, including goodwill. If we determine that it is more likely than not that the fair value of a reporting unit is less than its carrying value, or if we elect not to use a qualitative assessment, then we perform a quantitative goodwill impairment test. See Note 11 for additional information.

Foreign currency

The functional currency for our non-U.S. subsidiaries is the U.S. dollar. Accounts recorded in currencies other than the U.S. dollar are remeasured into the functional currency. Current assets (except inventories), deferred taxes, current liabilities and long-term liabilities are remeasured at exchange rates in effect at the end of each reporting period. Property, plant and equipment with associated depreciation and inventories are valued at historical exchange rates. Revenue and expense accounts other than depreciation for each month are calculated at the appropriate daily rate of exchange. Currency exchange gains and losses from remeasurement are credited or charged to OI&E.

Derivatives and hedging

We use derivative financial instruments to manage exposure to foreign exchange risk. These instruments are primarily forward foreign currency exchange contracts, which are used as economic hedges to reduce the earnings impact that exchange rate fluctuations may have on our non-U.S. dollar net balance sheet exposures. Gains and losses from changes in the fair value of these forward foreign currency exchange contracts are credited or charged to OI&E. We do not apply hedge accounting to our foreign currency derivative instruments.

We are exposed to variability in compensation charges related to certain deferred compensation obligations to employees. We use total return swaps to economically hedge this exposure and offset the related compensation expense, recognizing changes in the value of the swaps and the related deferred compensation liabilities in SG&A.

In connection with the issuance of long-term debt, we may use financial derivatives such as treasury-rate lock agreements that are recognized in AOCI and amortized over the life of the related debt.

The results of these derivative transactions were not material. We do not use derivatives for speculative or trading purposes.

3. Stock compensation

We have stock options outstanding to participants under long-term incentive plans. The option price per share may not be less than the fair market value of our common stock on the date of the grant. The options have a 10-year term, generally vest ratably over four years and continue to vest after the option recipient retires.

We also have RSUs outstanding to participants under long-term incentive plans. Each RSU represents the right to receive one share of TI common stock, issued on the vesting date, which is generally four years after the date of grant. RSUs continue to vest after the recipient retires. Holders of RSUs receive an annual cash payment equivalent to the dividends paid on our common stock. The fair value per share of RSUs is generally determined based on the closing price of our common stock on the date of grant.

We have options and RSUs outstanding to non-employee directors under director compensation plans. The plans generally provide for annual grants of stock options and RSUs, a one-time grant of RSUs to each new non-employee director and the issuance of TI common stock upon the distribution of stock units credited to director deferred compensation accounts.

We also have an employee stock purchase plan (ESPP) under which options are offered to all eligible employees in amounts based on a percentage of the employee's compensation, subject to a cap. Under the plan, the option price per share is 85% of the fair market value on the exercise date. As of December 31, 2023, 31 million shares remain available for future issuance under this plan.

Total stock compensation expense recognized is as follows:

	For Years Ended December 31,		
	2023	2022	2021
COR	\$ 44	\$ 34	\$ 21
R&D	119	90	67
SG&A	199	165	134
Restructuring charges/other	—	—	8
Total	\$ 362	\$ 289	\$ 230

These amounts include expenses related to non-qualified stock options, RSUs and stock options offered under our ESPP and are net of estimated forfeitures.

We recognize compensation expense for non-qualified stock options and RSUs on a straight-line basis over the minimum service period required for vesting of the award, adjusting for estimated forfeitures based on historical activity. Awards issued to employees who are retirement eligible or nearing retirement eligibility are expensed on an accelerated basis. Options issued under our ESPP are expensed over a three-month period.

As of December 31, 2023, total future compensation related to equity awards not yet recognized in our Consolidated Statements of Income was \$490 million, which we expect to recognize over a weighted average period of 1.8 years.

Fair value methods and assumptions

We account for all awards granted under our various stock compensation plans at fair value.

We estimate the fair values for non-qualified stock options using the Black-Scholes-Merton option-pricing model with the following weighted average assumptions:

	For Years Ended December 31,		
	2023	2022	2021
Weighted average grant date fair value, per share	\$ 46.23	\$ 39.94	\$ 40.78
Weighted average assumptions used:			
Expected volatility	31 %	29 %	32 %
Expected lives (in years)	6.1	6.4	6.7
Risk-free interest rates	3.60 %	1.83 %	0.72 %
Expected dividend yields	2.86 %	2.64 %	2.41 %

We use market-based measures of implied volatility to determine expected volatility on all options granted. We determine expected lives of options based on the historical option exercise experience of our option holders using a rolling 10-year average.

Expected dividend yields are based on the annualized approved quarterly dividend rate and the current market price of our common stock at the time of grant. No assumption for a future dividend rate change is included unless there is an approved plan to change the dividend in the near term.

Long-term incentive and director compensation plans

Stock option and RSU transactions under our long-term incentive and director compensation plans are as follows:

	Stock Options			RSUs		
	Shares	Weighted Average Exercise Price per Share		Shares	Weighted Average Grant Date Fair Value per Share	
Outstanding grants, December 31, 2022	25	\$ 105.75		5	\$ 147.30	
Granted	4	\$ 173.90		2	\$ 172.59	
Stock options exercised/RSUs vested	(3)	\$ 71.16		(2)	\$ 108.04	
Outstanding grants, December 31, 2023 (a)	26	\$ 119.60		5	\$ 161.40	

(a) Forfeited and expired shares were not material.

	For Years Ended December 31,		
	2023	2022	2021
Weighted average grant date fair value per share for RSUs	\$ 172.59	\$ 174.39	\$ 176.08
Total grant date fair value of shares vested for RSUs	\$ 106	\$ 121	\$ 115
Aggregate intrinsic value of options exercised	\$ 319	\$ 336	\$ 611

As of December 31, 2023, 27 million shares remain available for future issuance under these plans.

Summarized information about stock options outstanding as of December 31, 2023, is as follows:

	Stock Options Outstanding	
Exercise Price Range	Number Outstanding (Shares)	Weighted Average Remaining Contractual Life (Years)
\$44.09 to \$193.58	26	5.3

Effect on shares outstanding and treasury shares

Treasury shares were acquired in connection with the board-authorized stock repurchase program. As of December 31, 2023, \$21.20 billion of stock repurchase authorizations remain, and no expiration date has been specified.

Our practice is to issue shares of common stock from treasury shares upon exercise of stock options, distribution of director deferred compensation and vesting of RSUs. The following table reflects the changes in our treasury shares:

	For Years Ended December 31,		
	2023	2022	2021
Balance, January 1	835	817	821
Repurchases	2	22	3
Shares issued	(5)	(4)	(7)
Balance, December 31	832	835	817

The effects on cash flows are as follows:

	For Years Ended December 31,		
	2023	2022	2021
Proceeds from common stock transactions (a)	\$ 263	\$ 241	\$ 377
Tax benefit realized from stock compensation	104	110	175

(a) Net of taxes paid for employee shares withheld of \$46 million, \$50 million and \$53 million in 2023, 2022 and 2021, respectively.

4. Income taxes

Income before income taxes is comprised of the following components:

	For Years Ended December 31,		
	2023	2022	2021
U.S.	\$ 6,445	\$ 9,122	\$ 7,998
Non-U.S.	973	910	921
Total	\$ 7,418	\$ 10,032	\$ 8,919

Provision for income taxes is comprised of the following components:

For Years Ended December 31,											
2023				2022							
Current	Deferred	Total		Current	Deferred	Total		Current	Deferred	Total	
U.S. federal	\$ 943	\$ (277)	\$ 666	\$ 1,235	\$ (223)	\$ 1,012					
Non-U.S.	240	(22)	218	212	32	244					
U.S. state	24	—	24	27	—	27					
Total	\$ 1,207	\$ (299)	\$ 908	\$ 1,474	\$ (191)	\$ 1,283					

Principal reconciling items from the U.S. statutory income tax rate to the effective tax rate (provision for income taxes as a percentage of income before income taxes) are as follows:

For Years Ended December 31,											
2023				2022				2021			
U.S. statutory income tax rate	21.0 %			21.0 %				21.0 %			
Foreign derived intangible income	(6.8)			(7.0)				(6.1)			
R&D tax credit	(1.3)			(0.9)				(0.9)			
Stock compensation	(1.0)			(0.7)				(1.5)			
Changes in uncertain tax positions	—			0.1				(0.2)			
Other	0.3			0.3				0.6			
Effective tax rate	12.2 %			12.8 %				12.9 %			

The earnings represented by non-cash operating assets, such as fixed assets and inventory, will continue to be permanently reinvested outside the United States. Provisions of the U.S. Tax Cuts and Jobs Act (the Tax Act), such as the one-time tax on indefinitely reinvested earnings and the global intangible low-taxed income (GILTI) tax for years beginning in 2018, eliminate any additional U.S. taxation resulting from repatriation of earnings of non-U.S. subsidiaries to the United States. Consequently, no U.S. tax provision has been made for the future remittance of these earnings. However, withholding or distribution taxes in certain non-U.S. jurisdictions will be incurred upon repatriation of available cash to the United States. A provision has been made for deferred taxes on these undistributed earnings to the extent that repatriation of the available cash to the United States is expected to result in a tax liability. As of December 31, 2023, we have no basis differences that would result in material unrecognized deferred tax liabilities.

We have made an allowable policy election to account for the effects of GILTI as a component of income tax expense in the period in which the tax is incurred.

The primary components of deferred tax assets and liabilities are as follows:

	December 31,			
	2023		2022	
Deferred tax assets:				
Capitalized R&D	\$	750	\$	380
Accrued expenses		236		182
Deferred loss and tax credit carryforwards		205		201
Stock compensation		163		132
Inventories and related reserves		104		88
Retirement costs for defined benefit and retiree health care		37		43
Other		47		36
Total deferred tax assets, before valuation allowance		1,542		1,062
Valuation allowance		(198)		(189)
Total deferred tax assets, after valuation allowance		1,344		873
Deferred tax liabilities:				
Property, plant and equipment		(592)		(410)
International earnings		(33)		(35)
Acquisition-related intangibles and fair-value adjustments		(14)		(13)
Other		(11)		(8)
Total deferred tax liabilities		(650)		(466)
Net deferred tax asset	\$	694	\$	407

The deferred tax assets and liabilities based on tax jurisdictions are presented on our Consolidated Balance Sheets as follows:

	December 31,			
	2023		2022	
Deferred tax assets	\$	757	\$	473
Deferred tax liabilities		(63)		(66)
Net deferred tax asset	\$	694	\$	407

We make an ongoing assessment regarding the realization of U.S. and non-U.S. deferred tax assets. This assessment is based on our evaluation of relevant criteria, including the existence of deferred tax liabilities that can be used to absorb deferred tax assets, taxable income in prior carryback years and expectations for future taxable income. Valuation allowances increased \$9 million in 2023, increased \$1 million in 2022 and increased \$9 million in 2021. These changes had no impact to net income in 2023, 2022 or 2021.

We have no material tax loss carryforwards as of December 31, 2023.

Cash payments made for income taxes, net of refunds, were \$1.35 billion, \$1.48 billion and \$1.20 billion in 2023, 2022 and 2021, respectively.

Uncertain tax positions

We operate in a number of tax jurisdictions, and our income tax returns are subject to examination by tax authorities in those jurisdictions who may challenge any item on these tax returns. Because the matters challenged by authorities are typically complex, their ultimate outcome is uncertain. Before any benefit can be recorded in our financial statements, we must determine that it is “more likely than not” that a tax position will be sustained by the appropriate tax authorities. We recognize accrued interest related to uncertain tax positions and penalties as components of OI&E.

The changes in the total amounts of uncertain tax positions are as follows:

	2023	2022	2021
Balance, January 1	\$ 82	\$ 69	\$ 89
Additions based on tax positions related to the current year	3	3	2
Additions for tax positions of prior years	—	10	7
Reductions for tax positions of prior years	(3)	—	(6)
Settlements with tax authorities	—	—	(23)
Expiration of the statute of limitations for assessing taxes	—	—	—
Balance, December 31	\$ 82	\$ 82	\$ 69
Interest expense recognized in the year ended December 31	\$ (9)	\$ (1)	\$ (5)
Interest payable as of December 31	\$ 10	\$ 3	\$ 13

The liability for uncertain tax positions is a component of other long-term liabilities on our Consolidated Balance Sheets.

All of the \$82 million liabilities for uncertain tax positions at both December 31, 2023 and 2022 are comprised of positions that, if recognized, would lower the effective tax rate. If these liabilities are ultimately realized, no existing deferred tax assets in 2023 or 2022 would also be realized.

As of December 31, 2023, the statute of limitations remains open for U.S. federal tax returns for 2017 and following years. Certain tax treaty procedures for relief from double taxation remain pending for U.S. federal tax returns for the years 2018 through 2022.

In non-U.S. jurisdictions, the years open to audit represent the years still open under the statute of limitations. With respect to major jurisdictions outside the United States, our subsidiaries are no longer subject to income tax audits for years before 2012.

5. Financial instruments and risk concentration

Financial instruments

We hold derivative financial instruments such as forward foreign currency exchange contracts, the fair value of which was not material as of December 31, 2023. Our forward foreign currency exchange contracts outstanding as of December 31, 2023, had a notional value of \$328 million to hedge our non-U.S. dollar net balance sheet exposures, including \$102 million to sell Japanese yen, \$77 million to sell British pounds and \$58 million to buy Chinese yuan.

Our investments in cash equivalents, short-term investments and certain long-term investments, as well as our deferred compensation liabilities, are carried at fair value. Our postretirement plan assets are carried at fair value or net asset value per share. The carrying values for other current financial assets and liabilities, such as accounts receivable and accounts payable, approximate fair value due to the short maturity of such instruments. As of December 31, 2023, the carrying value of long-term debt, including the current portion, was \$11.22 billion, and the estimated fair value was \$10.68 billion. The estimated fair value is measured using broker-dealer quotes, which are Level 2 inputs. See Note 6 for a description of fair value and the definition of Level 2 inputs.

Risk concentration

We are subject to counterparty risks from financial institutions, customers and issuers of debt securities. Financial instruments that could subject us to concentrations of credit risk are primarily cash deposits, cash equivalents, short-term investments and accounts receivable. To manage our credit risk exposure, we place cash investments in investment-grade debt securities and limit the amount of credit exposure to any one issuer. We also limit counterparties on cash deposits and financial derivative contracts to financial institutions with investment-grade ratings.

Concentrations of credit risk with respect to accounts receivable are limited due to our large number of customers and their dispersion across different industries and geographic areas. We maintain allowances for expected returns, disputes, adjustments, incentives and credit losses. These allowances are deducted from accounts receivable on our Consolidated Balance Sheets.

Accounts receivable allowances changed to reflect amounts charged (credited) to operating results by \$3 million, \$5 million and (\$3) million in 2023, 2022 and 2021, respectively.

6. Valuation of debt and equity investments and certain liabilities

Investments measured at fair value

Money market funds, debt investments and mutual funds are stated at fair value, which is generally based on market prices or broker quotes. We classify all debt investments as available-for-sale. See *Fair-value considerations*. Unrealized gains and losses are recorded as an increase or decrease, net of taxes, in AOCI on our Consolidated Balance Sheets, and any credit losses are recorded as an allowance for credit losses with an offset recognized in OI&E in our Consolidated Statements of Income.

Our mutual funds hold a variety of debt and equity investments intended to generate returns that offset changes in certain deferred compensation liabilities. We record changes in the fair value of these mutual funds and the related deferred compensation liabilities in SG&A.

Other investments

Our other investments include equity-method investments and nonmarketable investments, which are not measured at fair value. These investments consist of interests in venture capital funds and other nonmarketable securities. Gains and losses from equity-method investments are recognized in OI&E based on our ownership share of the investee's financial results. Nonmarketable securities are measured at cost with adjustments for observable changes in price or impairments. Gains and losses on nonmarketable investments are recognized in OI&E.

Details of our investments are as follows:

	December 31, 2023						December 31, 2022					
	Cash and Cash Equivalents		Short-Term Investments		Long-Term Investments		Cash and Cash Equivalents		Short-Term Investments		Long-Term Investments	
Measured at fair value:												
Money market funds	\$ 1,068		\$ —		\$ —		\$ 1,238		\$ —		\$ —	
Corporate obligations	349		1,605		—		276		1,535		—	
U.S. government and agency securities	696		3,808		—		680		4,234		—	
Non-U.S. government and agency securities	50		198		—		149		248		—	
Mutual funds	—		—		12		—		—		1	
Total	2,163		5,611		12		2,343		6,017		1	
Other measurement basis:												
Equity-method investments	—		—		17		—		—		1	
Nonmarketable investments	—		—		5		—		—		—	
Total	—		—		22		—		—		2	
Cash on hand	801		—		—		707		—		—	
Total	<u>\$ 2,964</u>		<u>\$ 5,611</u>		<u>\$ 34</u>		<u>\$ 3,050</u>		<u>\$ 6,017</u>		<u>\$ 3</u>	

As of December 31, 2023 and 2022, unrealized gains and losses associated with our debt investments were not material. We did not recognize any credit losses related to debt investments in 2023, 2022 or 2021.

The following table presents the aggregate maturities of our debt investments as of December 31, 2023:

		Fair Value	
One year or less	\$	6,362	
One to two years		344	

In 2023, 2022 and 2021, the proceeds from sales, redemptions and maturities of short-term debt investments were \$13.39 billion, \$13.66 billion and \$8.48 billion, respectively. Gross realized gains and losses from these sales were not material.

Fair-value considerations

We measure and report certain financial assets and liabilities at fair value on a recurring basis. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date.

The three-level hierarchy described below indicates the extent and level of judgment used to estimate fair-value measurements.

- *Level 1* – Uses unadjusted quoted prices that are available in active markets for identical assets or liabilities as of the reporting date.
- *Level 2* – Uses inputs other than Level 1 that are either directly or indirectly observable as of the reporting date through correlation with market data, including quoted prices for similar assets and liabilities in active markets and quoted prices in markets that are not active. Level 2 also includes assets and liabilities that are valued using models or other pricing methodologies that do not require significant judgment since the input assumptions used in the models, such as interest rates and volatility factors, are corroborated by readily observable data. We utilize a third-party data service to provide Level 2 valuations. We verify these valuations for reasonableness relative to unadjusted quotes obtained from brokers or dealers based on observable prices for similar assets in active markets.
- *Level 3* – Uses inputs that are unobservable, supported by little or no market activity and reflect the use of significant management judgment. These values are generally determined using pricing models that utilize management estimates of market participant assumptions. As of December 31, 2023 and 2022, we had no Level 3 assets or liabilities.

The following are our assets and liabilities that were accounted for at fair value on a recurring basis. These tables do not include cash on hand, assets held by our postretirement plans, or assets and liabilities that are measured at

historical cost or any basis other than fair value.

	December 31, 2023													December 31, 2022											
	Level 1				Level 2				Total					Level 1				Level 2				Total			
Assets:																									
Money market funds	\$	1,068			\$	—			\$	1,068				\$	1,238			\$	—			\$	1,238		
Corporate obligations	—				1,954				1,954					—				1,811				1,811			
U.S. government and agency securities		3,618				886				4,504					4,914				—				4,914		
Non-U.S. government and agency securities	—				248				248					—				397				397			
Mutual funds		12				—				12					11				—				11		
Total assets	\$	4,698			\$	3,088			\$	7,786				\$	6,163			\$	2,208			\$	8,371		
Liabilities:																									
Deferred compensation	\$	393			\$	—			\$	393				\$	326			\$	—			\$	326		
Total liabilities	\$	393			\$	—			\$	393				\$	326			\$	—			\$	326		

7. Postretirement benefit plans

Plan descriptions

We have various employee retirement plans, including defined contribution, defined benefit and retiree health care benefit plans. For qualifying employees, we offer deferred compensation arrangements.

U.S. retirement plans

Our principal retirement plans in the United States are a defined contribution plan, an enhanced defined contribution plan and qualified and non-qualified defined benefit pension plans. The defined benefit plans were closed to new participants in 1997, and then current participants were allowed to make a one-time election to continue accruing a benefit in the plans or to cease accruing a benefit and instead to participate in the enhanced defined contribution plan.

Both defined contribution plans offer an employer-matching savings option that allows employees to make pretax and post-tax contributions to various investment choices. Employees who elected to continue accruing a benefit in the qualified defined benefit pension plans may also participate in the defined contribution plan, where employer-matching contributions are provided for up to 2% of the employee's annual eligible earnings. Employees who elected not to continue accruing a benefit in the defined benefit pension plans and employees hired after November 1997 and through December 31, 2003, may participate in the enhanced defined contribution plan. This plan provides for a fixed employer contribution of 2% of the employee's annual eligible earnings, plus an employer-matching contribution of up to 4% of the employee's annual eligible earnings. Employees hired after December 31, 2003, do not receive the fixed employer contribution of 2% of the employee's annual eligible earnings.

As of December 31, 2023 and 2022, as a result of employees' elections, TI's U.S. defined contribution plans held shares of TI common stock totaling 5 million shares and 6 million shares valued at \$873 million and \$940 million, respectively. Dividends paid on these shares in 2023 and 2022 were \$27 million and \$28 million, respectively. Effective April 1, 2016, the TI common stock fund was frozen to new contributions or transfers into the fund.

Our aggregate expense for the U.S. defined contribution plans was \$75 million in 2023, \$70 million in 2022 and \$63 million in 2021.

The defined benefit pension plans include employees still accruing benefits, as well as employees and participants who no longer accrue service-related benefits, but instead, may participate in the enhanced defined contribution plan. Benefits under the qualified defined benefit pension plan are determined using a formula based on years of service and the highest five consecutive years of compensation. We intend to contribute amounts to this plan to meet the minimum funding requirements of applicable local laws and regulations, plus such additional amounts as we deem appropriate. The non-qualified defined benefit plans are unfunded and closed to new participants.

U.S. retiree health care benefit plan

U.S. employees who meet eligibility requirements are offered medical coverage during retirement. We make a contribution toward the cost of those retiree medical benefits for certain retirees and their dependents. The contribution rates are based upon various factors, the most important of which are an employee's date of hire, date of retirement, years of service and eligibility for Medicare benefits. The balance of the cost is borne by the plan's participants. Employees hired after January 1, 2001, are responsible for the full cost of their medical benefits during retirement.

Non-U.S. retirement plans

We provide retirement coverage for non-U.S. employees, as required by local laws or to the extent we deem appropriate, through a number of defined benefit and defined contribution plans. Retirement benefits are generally based on an employee's years of service and compensation. Funding requirements are determined on an individual country and plan basis and are subject to local country practices and market circumstances.

As of December 31, 2023 and 2022, as a result of employees' elections, TI's non-U.S. defined contribution plans held TI common stock valued at \$34 million and \$33 million, respectively. Dividends paid on these shares of TI common stock in 2023 and 2022 were not material.

Effects on our Consolidated Statements of Income and Balance Sheets

Expenses related to defined benefit and retiree health care benefit plans are as follows:

	U.S. Defined Benefit						U.S. Retiree Health Care						
	2023		2022		2021		2023		2022		2021		2023
Service cost	\$ 8		\$ 15		\$ 21		\$ 2		\$ 3		\$ 3		\$ 16
Interest cost	28		29		30		15		11		10		57
Expected return on plan assets	(23)		(27)		(31)		(19)		(12)		(9)		(63)
Amortization of prior service cost (credit)	—		—		—		—		(2)		(2)		1
Recognized net actuarial losses (gains)	6		3		15		(5)		—		—		12
Net periodic benefit costs (credits)	19		20		35		(7)		—		2		23
Settlement losses	7		64		13		—		—		—		—
Total, including other postretirement losses (gains)	\$ 26		\$ 84		\$ 48		\$ (7)		\$ —		\$ 2		\$ 23

All defined benefit and retiree health care benefit plan expense components other than service cost are recognized in OI&E in our Consolidated Statements of Income. Service cost is recognized within operating profit.

For the U.S. qualified pension and retiree health care plans, the expected return on plan assets component of net periodic benefit cost is based upon a market-related value of assets. In accordance with U.S. GAAP, the market-related value of assets is the fair value adjusted by a smoothing technique whereby certain gains and losses are phased in over a period of three years.

Changes in the benefit obligations and plan assets for defined benefit and retiree health care benefit plans are as follows:

	U.S. Defined Benefit						U.S. Retiree Health Care						Non-U.S. Defined Benefit					
	2023		2022		2023		2022		2023		2022							
Change in plan benefit obligation																		
Benefit obligation at beginning of year:	\$	521		\$	895	\$	274		\$	360	\$	1,667		\$	2,574			
Service cost		8			15		2			3		16			25			
Interest cost		28			29		15			11		57			33			
Participant contributions		—			—		14			15		1			5			
Benefits paid		(13)			(12)		(41)			(41)		(77)			(86)			
Settlements		(40)			(309)		—			—		(6)			(91)			
Curtailments		—			—		—			—		—			(4)			
Actuarial loss (gain)		1			(97)		(6)			(74)		80			(547)			
Effects of exchange rate changes		—			—		—			—		(6)			(242)			
Benefit obligation at end of year	\$	505		\$	521	\$	258		\$	274	\$	1,732		\$	1,667			
Change in plan assets																		
Fair value of plan assets at beginning of year:	\$	421		\$	934	\$	280		\$	385	\$	1,822		\$	2,813			
Actual return on plan assets		47			(205)		29			(80)		137			(557)			
Employer contributions (qualified plans)		—			—		1			1		2			9			
Employer contributions (non-qualified plans)		3			13		—			—		—			—			
Participant contributions		—			—		14			15		1			5			
Benefits paid		(13)			(12)		(41)			(41)		(77)			(86)			
Settlements		(40)			(309)		—			—		(6)			(91)			
Effects of exchange rate changes		—			—		—			—		(13)			(271)			
Other							(10)											

Changes in actuarial gains and losses in the projected benefit obligations are generally driven by discount rate movement.

Amounts recognized on our Consolidated Balance Sheets as of December 31, are as follows:

	U.S. Defined Benefit	U.S. Retiree Health Care	Non-U.S. Defined Benefit	Total
2023				
Overfunded retirement plans	\$ —	\$ 8	\$ 165	\$ 173
Accrued expenses and other liabilities & other long-term liabilities	(5)	—	(7)	(12)
Underfunded retirement plans	(82)	(2)	(24)	(108)
Funded status at end of 2023	<u>\$ (87)</u>	<u>\$ 6</u>	<u>\$ 134</u>	<u>\$ 53</u>
2022				
Overfunded retirement plans	\$ —	\$ 8	\$ 180	\$ 188
Accrued expenses and other liabilities & other long-term liabilities	(3)	—	(6)	(9)
Underfunded retirement plans	(97)	(2)	(19)	(118)
Funded status at end of 2022	<u>\$ (100)</u>	<u>\$ 6</u>	<u>\$ 155</u>	<u>\$ 61</u>

Contributions to the plans meet or exceed all minimum funding requirements. We expect to contribute about \$10 million to our retirement benefit plans in 2024.

Accumulated benefit obligations, which are generally less than the projected benefit obligations as they exclude the impact of future salary increases, were \$480 million and \$489 million as of December 31, 2023 and 2022, respectively, for the U.S. defined benefit plans, and \$1.67 billion and \$1.60 billion as of December 31, 2023 and 2022, respectively, for the non-U.S. defined benefit plans.

The change in AOCI is as follows:

	U.S. Defined Benefit	U.S. Retiree Health Care			Non-U.S. Defined Benefit			Total
	Net Actuarial Loss	Net Actuarial Gain	Prior Service Cost		Net Actuarial Loss	Prior Service Cost		Net Actuarial Loss
AOCI balance, net of taxes, December 31, 2022	\$ 90	\$ (15)	\$ —		\$ 174	\$ 1		\$ 249
Changes in AOCI by category:								
Adjustments	(23)	(17)	—		4	—		(36)
Recognized within net income	(13)	5	—		(12)	(1)		(20)
Tax effect	8	3	—		3	—		14
Total change to AOCI	(28)	(9)	—		(5)	(1)		(42)
AOCI balance, net of taxes, December 31, 2023	\$ 62	\$ (24)	\$ —		\$ 169	\$ —		\$ 207

Information on plan assets

We report and measure the plan assets of our defined benefit pension and other postretirement plans at fair value. The tables below set forth the fair value of our plan assets using the same three-level hierarchy of fair-value inputs

described in Note 6.

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(a) Consists of bond index and equity index funds, measured at net asset value per share, as well as cash equivalents.

	December 31, 2022											
	Level 1			Level 2			Other (a)			Total		
Assets of U.S. defined benefit plan:												
Fixed income securities and cash equivalents	\$	—		\$	—		\$	272		\$	272	
Equity securities		—			—			149			149	
Total	\$	—		\$	—		\$	421		\$	421	
Assets of U.S. retiree health care plan:												
Fixed income securities and cash equivalents	\$	7		\$	—		\$	175		\$	182	
Equity securities		—			—			98			98	
Total	\$	7		\$	—		\$	273		\$	280	
Assets of non-U.S. defined benefit plans:												
Fixed income securities and cash equivalents	\$	40		\$	60		\$	1,282		\$	1,382	
Equity securities		52			1			387			440	
Total	\$	92		\$	61		\$	1,669		\$	1,822	

(a) Consists of bond index and equity index funds, measured at net asset value per share, as well as cash equivalents.

The investments in our major benefit plans largely consist of low-cost, broad-market index funds to mitigate risks of concentration within market sectors. Our investment policy is designed to better match the interest rate sensitivity of the plan assets and liabilities. The appropriate mix of equity and bond investments is determined primarily through the use of detailed asset-liability modeling studies that look to balance the impact of changes in the discount rate against the need to provide asset growth to cover future service cost. Most of our plans around the world have a greater proportion of fixed income securities with return characteristics that are more closely aligned with changes in the liabilities caused by discount rate volatility.

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Assumptions for the expected long-term rate of return on plan assets are based on future expectations for returns for each asset class and the effect of periodic target asset allocation rebalancing. We adjust the results for the payment of reasonable expenses of the plan from plan assets. We believe our assumptions are appropriate based on the investment mix and long-term nature of the plans' investments. Assumptions used for the non-U.S. defined benefit plans reflect the different economic environments within the various countries.

The target allocation ranges for the plans that hold a substantial majority of the defined benefit assets are as follows:

	U.S. Defined Benefit	U.S. Retiree Health Care	Non-U.S. Defined Benefit
Fixed income securities and cash equivalents	65% – 80%	75% – 85%	60% – 100%
Equity securities	20% – 35%	15% – 25%	0% – 40%

We rebalance the plans' investments when they are outside the target allocation ranges.

Weighted average asset allocations as of December 31 are as follows:

	U.S. Defined Benefit		U.S. Retiree Health Care		Non-U.S. Defined Benefit	
	2023	2022	2023	2022	2023	2022
Fixed income securities and cash equivalents	65%	65%	80%	65%	77%	76%
Equity securities	35%	35%	20%	35%	23%	24%

None of the plan assets related to the defined benefit pension plans and retiree health care benefit plan are directly invested in TI common stock.

The following assumed future benefit payments to plan participants in the next 10 years are used to measure our benefit obligations. Almost all of the payments, which may vary significantly from these assumptions, will be made from plan assets and not from company assets.

	2024	2025	2026	2027	2028	2029 – 2033
U.S. Defined Benefit	\$ 70	\$ 72	\$ 64	\$ 62	\$ 56	\$ 207
U.S. Retiree Health Care	27	25	24	23	22	97
Non-U.S. Defined Benefit	88	89	92	92	95	501

Assumed health care cost trend rates for the U.S. retiree health care benefit plan as of December 31 are as follows:

	2023	2022
Assumed health care cost trend rate for next year	7.00%	7.00%
Ultimate trend rate	5.00%	5.00%
Year in which ultimate trend rate is reached	2032	2031

Deferred compensation plans

We have deferred compensation plans that allow U.S. employees whose base salary and management responsibility exceed a certain level to defer receipt of a portion of their cash compensation. Payments under these plans are made based on the participant's distribution election and plan balance. Participants can earn a return on their deferred compensation based on notional investments in the same investment funds that are offered in our defined contribution plans.

As of December 31, 2023, our liability to participants of the deferred compensation plans was \$393 million and is recorded in other long-term liabilities on our Consolidated Balance Sheets. This amount reflects the accumulated participant deferrals and earnings thereon as of that date. We utilize total return swaps and investments in mutual funds that serve as economic hedges of our exposure to changes in the fair value of these liabilities. We record changes in the fair value of the liability and the related total return swaps and mutual funds in SG&A, as discussed in Note 6. As of December 31, 2023, we held \$12 million in mutual funds related to these plans that are recorded in long-term investments on our Consolidated Balance Sheets.

8. Debt and lines of credit

Short-term borrowings

We maintain a line of credit to provide additional liquidity through bank loans and, if necessary, to support commercial paper borrowings. As of December 31, 2023, the aforementioned line of credit was a variable-rate, revolving credit facility from a consortium of investment-grade banks that allows us to borrow up to \$1 billion until March 2024. The interest rate on borrowings under this credit facility, if drawn, is indexed to the applicable Term Secured Overnight Financing Rate (Term SOFR). As of December 31, 2023, our credit facility was undrawn, and we had no commercial paper outstanding.

Long-term debt

In March 2023, we issued two series of senior unsecured notes for an aggregate principal amount of \$1.4 billion, consisting of \$750 million of 4.90% notes due in 2033 and \$650 million of 5.00% notes due in 2053. We incurred \$11 million of issuance and other related costs. The proceeds of the offering were \$1.4 billion, net of the original issuance discounts, which will be used for general corporate purposes.

In May 2023, we issued three series of senior unsecured notes for an aggregate principal amount of \$1.6 billion, consisting of \$200 million of 4.60% notes due in 2028, \$200 million of 4.90% notes due in 2033 and \$1.2 billion of 5.05% notes due in 2063. We incurred \$7 million of issuance and other related costs. The proceeds of the offering were \$1.6 billion, net of the original issuance discounts and premiums, which will be used for general corporate purposes.

In May 2023, we retired \$500 million of maturing debt.

In April 2022, we retired \$500 million of maturing debt.

In August 2022, we issued two series of senior unsecured notes for an aggregate principal amount of \$700 million, consisting of \$400 million of 3.65% notes due in 2032 and \$300 million of 4.10% notes due in 2052. We incurred \$3 million of issuance and other related costs. The proceeds of the offering were \$695 million, net of the original issuance discounts, which will be used for general corporate purposes.

In November 2022, we issued two series of senior unsecured notes for an aggregate principal amount of \$800 million, consisting of \$300 million of 4.70% notes due in 2024 and \$500 million of 4.60% notes due in 2028. We incurred \$3 million of issuance and other related costs. The proceeds of the offering were \$799 million, net of the original issuance discounts, which will be used for general corporate purposes.

In February 2021, we retired \$550 million of maturing debt.

In September 2021, we issued three series of senior unsecured notes for an aggregate principal amount of \$1.5 billion, consisting of \$500 million of 1.125% notes due in 2026, \$500 million of 1.90% notes due in 2031 and \$500 million of 2.70% notes due in 2051. We incurred \$10 million of issuance costs. The proceeds of the offering were \$1.5 billion, net of the original issuance discounts, which will be used for general corporate purposes.

Long-term debt outstanding is as follows:

	December 31,	
	2023	2022
Notes due 2023 at 2.25%	\$ —	\$ 500
Notes due 2024 at 2.625%	300	300
Notes due 2024 at 4.70%	300	300
Notes due 2025 at 1.375%	750	750
Notes due 2026 at 1.125%	500	500
Notes due 2027 at 2.90%	500	500
Notes due 2028 at 4.60%	700	500
Notes due 2029 at 2.25%	750	750
Notes due 2030 at 1.75%	750	750
Notes due 2031 at 1.90%	500	500
Notes due 2032 at 3.65%	400	400
Notes due 2033 at 4.90%	950	—
Notes due 2039 at 3.875%	750	750
Notes due 2048 at 4.15%	1,500	1,500
Notes due 2051 at 2.70%	500	500
Notes due 2052 at 4.10%	300	300
Notes due 2053 at 5.00%	650	—
Notes due 2063 at 5.05%	1,200	—
Total debt	11,300	8,800
Net unamortized discounts, premiums and issuance costs	(77)	(65)
Total debt, including net unamortized discounts, premiums and issuance costs	11,223	8,735
Current portion of long-term debt	(599)	(500)
Long-term debt	\$ 10,624	\$ 8,235

Interest and debt expense was \$353 million, \$214 million and \$184 million in 2023, 2022 and 2021, respectively. This was net of the amortized discounts, premiums and issuance and other related costs. Cash payments for interest on long-term debt were \$321 million, \$198 million and \$181 million in 2023, 2022 and 2021, respectively. Capitalized interest was \$11 million, \$6 million and \$8 million in 2023, 2022 and 2021, respectively.

9. Leases

We conduct certain operations in leased facilities and also lease a portion of our data processing and other equipment. In addition, certain long-term supply agreements to purchase industrial gases are accounted for as operating leases. Lease agreements frequently include renewal provisions and require us to pay real estate taxes, insurance and maintenance costs.

Our leases are included as a component of the following balance sheet lines:

																December 31,			
																2023		2022	
Other long-term assets																\$	579	\$	431
Accrued expenses and other liabilities																\$	88	\$	75
Other long-term liabilities																	478		344

Details of our operating leases are as follows:

	For Years Ended December 31,		
	2023	2022	2021
Lease cost related to lease liabilities	\$ 73	\$ 67	\$ 69
Variable lease cost	54	46	56
Cash paid for amounts included in the measurement of lease liabilities:			
Operating cash flows for lease cost	\$ 65	\$ 61	\$ 61
Lease assets obtained in exchange for new lease liabilities	\$ 285	\$ 37	\$ 210

As of December 31, 2023, we had committed to make the following minimum payments under our noncancelable operating leases:

	2024	2025	2026	2027	2028	Thereafter	Total
Lease payments	\$ 94	\$ 77	\$ 69	\$ 60	\$ 52	\$ 378	\$ 730
Imputed lease interest							(164)
Total lease liabilities							\$ 566

The weighted average remaining lease term was 11.7 years and 8.8 years as of December 31, 2023 and 2022, respectively. The weighted average discount rate was 4.22% and 2.71% as of December 31, 2023 and 2022, respectively.

10. Commitments and contingencies

Purchase commitments

Our purchase commitments include payments for software licenses and contractual arrangements with suppliers when there is a fixed, noncancelable payment schedule or when minimum payments are due with a reduced delivery schedule.

As of December 31, 2023, we had committed to make the following minimum payments under our purchase commitments:

	2024	2025	2026	2027	2028	Thereafter
Purchase commitments	\$ 626	\$ 337	\$ 312	\$ 247	\$ 131	\$ 215

Indemnification guarantees

We routinely sell products with an intellectual property indemnification included in the terms of sale. Historically, we have had only minimal, infrequent losses associated with these indemnities. Consequently, we cannot reasonably estimate any future liabilities that may result.

Warranty costs/product liabilities

Our stated warranties for semiconductor products obligate us to repair, replace or credit the purchase price of a covered product back to the buyer. Product claim consideration may exceed the price of our products. Historically, we have experienced a low rate of payments on product claims. Although we cannot predict the likelihood or amount of any future claims, we do not believe they will have a material adverse effect on our consolidated financial statements. We accrue for known product-related claims if a loss is probable and can be reasonably estimated. During the periods presented, there have been no material accruals or payments regarding product warranty or product liability.

General

We are subject to various legal and administrative proceedings. Although it is not possible to predict the outcome of these matters, we believe that the results of these proceedings will not have a material adverse effect on our consolidated financial statements.

11. Supplemental financial information

Restructuring charges/other

Restructuring charges/other are included in Other for segment reporting purposes and are comprised of the following components:

	For Years Ended December 31,		
	2023	2022	2021
Integration charges (a)	\$ —	\$ 257	\$ 104
Gains on sales of assets (b)	—	—	(50)
Restructuring charges/other	\$ —	\$ 257	\$ 54

(a) Includes costs related to our purchase of the Lehi, Utah, manufacturing facility, as well as preproduction costs before December 2022.

(b) Includes a \$50 million gain from the sale of property in October 2021.

Other income (expense), net (OI&E)

	For Years Ended December 31,		
	2023	2022	2021
Other income (a)	\$ 483	\$ 169	\$ 145
Other expense (b)	(43)	(63)	(2)
Total	\$ 440	\$ 106	\$ 143

(a) Other income includes interest, royalty and lease income, as well as investment gains and losses.

(b) Other expense includes a portion of pension and other retiree benefit costs, lease expense, tax interest, currency gains and losses and miscellaneous items.

Prepaid expenses and other current assets

	December 31,	
	2023	2022
U.S. CHIPS and Science Act investment tax credit	\$ 497	\$ —
Other	264	302
Total	\$ 761	\$ 302

[illegible]

Goodwill

Goodwill by segment as of December 31, 2023 and 2022, is as follows:

	Goodwill
Analog	\$ 4,158
Embedded Processing	172
Other	32
Total	<u>\$ 4,362</u>

We perform our annual goodwill impairment test in the fourth quarter and determine whether the fair value of each of our reporting units is in excess of its carrying value. In 2023, 2022 and 2021, we determined no impairment was indicated.

Other long-term assets

	December 31,	
	2023	2022
U.S. CHIPS and Science Act investment tax credit	\$ 859	\$ 395
Other	853	740
Total	<u>\$ 1,712</u>	<u>\$ 1,135</u>

Accrued expenses and other liabilities

	December 31,	
	2023	2022
Accrued capital-related expenditures	\$ 341	\$ 191
Other	570	455
Total	<u>\$ 911</u>	<u>\$ 646</u>

Accumulated other comprehensive income (loss), net of taxes (AOCI)

	December 31,	
	2023	2022
Postretirement benefit plans:		
Net actuarial loss	\$ (207)	\$ (249)
Prior service cost	—	(1)
Unrealized gains (losses) on available-for-sale investments	2	(3)
Cash flow hedge derivative instruments	—	(1)
Total	<u>\$ (205)</u>	<u>\$ (254)</u>

Details on amounts reclassified out of accumulated other comprehensive income (loss), net of taxes, to net income

Our Consolidated Statements of Comprehensive Income include items that have been recognized within net income in 2023, 2022 and 2021. The table below details where these transactions are recorded in our Consolidated Statements of Income.

		For Years Ended December 31,							Impact to Related Statement of Income Lines
		2023		2022		2021			
Net actuarial losses of defined benefit plans:									
Recognized net actuarial loss and settlement losses (a)		\$ 20		\$ 78		\$ 37		Decrease to OI&E	
Tax effect		(5)		(17)		(8)		Decrease to provision for income taxes	
Recognized within net income, net of taxes		\$ 15		\$ 61		\$ 29		Decrease to net income	
Prior service cost (credit) of defined benefit plans:									
Amortization of prior service cost (credit) (a)		\$ 1		\$ (1)		\$ (1)		Decrease (increase) to OI&E	
Tax effect		—		—		—		(Decrease) increase to provision for income taxes	
Recognized within net income, net of taxes		\$ 1		\$ (1)		\$ (1)		Decrease (increase) to net income	

(a) Detailed in Note 7

Report of independent registered public accounting firm

To the Shareholders and the Board of Directors of Texas Instruments Incorporated

Opinion on the financial statements

We have audited the accompanying consolidated balance sheets of Texas Instruments Incorporated (the Company) as of December 31, 2023 and 2022, the related consolidated statements of income, comprehensive income, shareholders' equity and cash flows for each of the three years in the period ended December 31, 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 31, 2023 and 2022, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 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 31, 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 February 2, 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 account or disclosure to which it relates.

Uncertain tax positions

<i>Description of the matter</i>	As discussed in Note 4 to the consolidated financial statements, the Company operates in the United States and multiple international tax jurisdictions, and its income tax returns are subject to examination by tax authorities in those jurisdictions who may challenge any tax position on these returns. Uncertainty in a tax position may arise because tax laws are subject to interpretation. The Company uses significant judgment to (1) determine whether, based on the technical merits, a tax position is more likely than not to be sustained and (2) measure the amount of tax benefit that qualifies for recognition. Auditing management's estimate of the amount of tax benefit that qualifies for recognition involved auditor judgment because management's estimate is complex, requires a high degree of judgment and is based on interpretations of tax laws and legal rulings.				
<i>How we addressed the matter in our audit</i>	We obtained an understanding, evaluated the design, and tested the operating effectiveness of controls over the Company's accounting process for uncertain tax positions. For example, this included controls over the Company's assessment of the technical merits of tax positions and management's process to measure the benefit of those tax positions. Among other procedures performed, we involved our tax professionals to assess the technical merits of the Company's tax positions. This included assessing the Company's correspondence with the relevant tax authorities and evaluating income tax opinions or other third-party advice obtained by the Company. We also evaluated the appropriateness of the Company's accounting for its tax positions taking into consideration relevant international and local income tax laws and legal rulings. We analyzed the Company's assumptions and data used to determine the amount of tax benefit to recognize and tested the accuracy of the calculations. We also evaluated the adequacy of the Company's financial statement disclosures in Note 4 to the consolidated financial statements related to these tax matters.				

/s/ Ernst & Young

We have served as the Company's auditor since 1952.

Dallas, Texas
February 2, 2024

ITEM 9. Changes in and disagreements with accountants on accounting and financial disclosure

Not applicable.

ITEM 9A. Controls and procedures

Disclosure controls and procedures

An evaluation as of the end of the period covered by this report was carried out under the supervision and with the participation of management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934). Based upon that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that those disclosure controls and procedures were effective.

Internal control over financial reporting

Report by management on internal control over financial reporting

The management of TI is responsible for establishing and maintaining effective internal control over financial reporting. TI's internal control system was designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation and fair presentation of financial statements issued for external purposes in accordance with generally accepted accounting principles. There has been no change in our internal control over financial reporting (as defined in Rule 13a-15(f) and 15d-15(f) under the Securities Exchange Act of 1934) that occurred during the fourth quarter of 2023 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

All internal control systems, no matter how well designed, have inherent limitations and 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.

TI management assessed the effectiveness of internal control over financial reporting as of December 31, 2023. In making this assessment, we used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria) in Internal Control – Integrated Framework. Based on our assessment, we believe that, as of December 31, 2023, our internal control over financial reporting is effective based on the COSO criteria.

TI's independent registered public accounting firm, Ernst & Young LLP, has issued an audit report on the effectiveness of our internal control over financial reporting, which immediately follows this report.

Report of independent registered public accounting firm

To the Shareholders and the Board of Directors of Texas Instruments Incorporated

Opinion on internal control over financial reporting

We have audited Texas Instruments Incorporated's internal control over financial reporting as of December 31, 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, Texas Instruments Incorporated (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 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 31, 2023 and 2022, the related consolidated statements of income, comprehensive income, shareholders' equity and cash flows for each of the three years in the period ended December 31, 2023, and the related notes, and our report dated February 2, 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 report by management 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

Dallas, Texas

ITEM 9B. Other information

Not applicable.

ITEM 9C. Disclosure regarding foreign jurisdictions that prevent inspections

Not applicable.

PART III**ITEM 10. Directors, executive officers and corporate governance**

The information with respect to directors' names, ages, positions, term of office, periods of service and business experience, which is contained under the caption "Election of directors" in our proxy statement for the 2024 annual meeting of stockholders, is incorporated herein by reference to such proxy statement.

A list of our executive officers and their biographical information appears in Part I, Item 1 of this report.

Code of ethics

We have adopted the Code of Ethics for TI Chief Executive Officer and Senior Finance Officers. A copy of the Code can be found on our website at www.ti.com/corporategovernance. We intend to satisfy the disclosure requirements of the SEC regarding amendments to, or waivers from, the Code by posting such information on the same website.

Audit committee

The information contained under the caption "Committees of the board" with respect to the audit committee and the audit committee financial expert in our proxy statement for the 2024 annual meeting of stockholders is incorporated herein by reference to such proxy statement.

ITEM 11. Executive compensation

The information contained under the captions "Director compensation" and "Executive compensation" in our proxy statement for the 2024 annual meeting of stockholders is incorporated herein by reference to such proxy statement, provided that the Compensation Committee report shall not be deemed filed with this Form 10-K.

The information contained under the caption "Compensation committee interlocks and insider participation" in our proxy statement for the 2024 annual meeting of stockholders is incorporated herein by reference to such proxy statement.

ITEM 12. Security ownership of certain beneficial owners and management and related stockholder matters

Equity compensation plan information

The following table sets forth information about the company's equity compensation plans as of December 31, 2023.

Plan Category	Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights (1)		Weighted Average Exercise Price of Outstanding Options, Warrants and Rights (2)		Number of Securities Remaining Available for Future Issuance under Equity Compensation Plans (excluding securities reflected in column (1)) (3)	
Equity compensation plans approved by security holders	31,257,621	(a)	\$ 119.76	(b)	58,452,628	(c)
Equity compensation plans not approved by security holders	—		—		—	
Total	31,257,621	(d)	\$ 119.76		58,452,628	

- (a) Includes shares of TI common stock to be issued under the Texas Instruments 2003 Director Compensation Plan, the Texas Instruments 2009 Long-Term Incentive Plan (the "2009 LTIP") and its predecessor stockholder-approved plans, the Texas Instruments 2009 Director Compensation Plan, the TI Employees 2014 Stock Purchase Plan (the "2014 ESPP") and the Texas Instruments 2018 Director Compensation Plan (the "2018 Director Plan").
- (b) Restricted stock units and stock units credited to directors' deferred compensation accounts are settled in shares of TI common stock on a one-for-one basis. Accordingly, such units have been excluded for purposes of computing the weighted average exercise price.
- (c) Shares of TI common stock available for future issuance under the 2009 LTIP, the 2014 ESPP and the 2018 Director Plan. 25,296,767 shares remain available for future issuance under the 2009 LTIP and 1,786,785 shares remain available for future issuance under the 2018 Director Plan. Under the 2009 LTIP and the 2018 Director Plan, awards may be granted in the form of restricted stock units, options or other stock-based awards such as restricted stock.
- (d) Includes 25,771,272 shares for issuance upon exercise of outstanding grants of options, 5,220,883 shares for issuance upon vesting of outstanding grants of restricted stock units, 166,526 shares for issuance under the 2014 ESPP and 98,940 shares for issuance in settlement of directors' deferred compensation accounts.

Security ownership of certain beneficial owners and management

The information that is contained under the captions "Security ownership of certain beneficial owners" and "Security ownership of directors and management" in our proxy statement for the 2024 annual meeting of stockholders is incorporated herein by reference to such proxy statement.

ITEM 13. Certain relationships and related transactions, and director independence

The information contained under the captions "Related person transactions" and "Director independence" in our proxy statement for the 2024 annual meeting of stockholders is incorporated herein by reference to such proxy statement.

ITEM 14. Principal accountant fees and services

The information with respect to principal accountant fees and services contained under the caption “Proposal to ratify appointment of independent registered public accounting firm” in our proxy statement for the 2024 annual meeting of stockholders is incorporated herein by reference to such proxy statement.

PART IV

ITEM 15. Exhibits, financial statement schedules

The financial statements are listed in the index included in Item 8, "Financial statements and supplementary data."

Designation of Exhibit	Description of Exhibit	Incorporated by Reference				Filed or Furnished Herewith
		Form	File Number	Date of Filing	Exhibit Number	
3(a)	Restated Certificate of Incorporation of the Registrant, dated April 18, 1985, as amended	10-K	001-3761	February 24, 2015	3(a)	
3(b)	By-Laws of the Registrant	8-K	001-3761	January 26, 2022	3	
4(a)	Indenture	8-K	001-3761	May 23, 2011	4.2	
4(b)	Officers' Certificate	8-K	001-3761	May 4, 2017	4.1	
4(c)	Officers' Certificate	8-K	001-3761	November 3, 2017	4.1	
4(d)	Officers' Certificate	8-K	001-3761	May 7, 2018	4.1	
4(e)	Officers' Certificate	8-K	001-3761	June 8, 2018	4.1	
4(f)	Officers' Certificate	8-K	001-3761	March 11, 2019	4.1	
4(g)	Officers' Certificate	8-K	001-3761	September 4, 2019	4.1	
4(h)	Officers' Certificate	8-K	001-3761	March 12, 2020	4.1	
4(i)	Officers' Certificate	8-K	001-3761	May 4, 2020	4.1	
4(j)	Officers' Certificate	8-K	001-3761	September 15, 2021	4.1	
4(k)	Officers' Certificate	8-K	001-3761	August 16, 2022	4.1	
4(l)	Officers' Certificate	8-K	001-3761	November 18, 2022	4.1	
4(m)	Officers' Certificate	8-K	001-3761	March 14, 2023	4.1	
4(n)	Officers' Certificate	8-K	001-3761	May 18, 2023	4.1	
4(o)	Description of Securities	10-K	001-3761	February 20, 2020	4(l)	
10(a)	TI Deferred Compensation Plan, as amended*	10-K	001-3761	February 24, 2016	10(a)	
10(b)	TI Employees Non-Qualified Pension Plan, effective January 1, 2009, as amended*	10-K	001-3761	February 24, 2016	10(b)	
10(c)	TI Employees Non-Qualified Pension Plan II*	10-K	001-3761	February 24, 2016	10(c)	
10(d)	Texas Instruments Long-Term Incentive Plan, adopted April 15, 1993*	10-K	001-3761	February 24, 2012	10(c)	
10(e)	Texas Instruments 2003 Director Compensation Plan as amended January 19, 2012	10-K	001-3761	February 24, 2015	10(j)	
10(f)	Form of Non-Qualified Stock Option Agreement for Executive Officers under the Texas Instruments 2009 Long-Term Incentive Plan*	10-K	001-3761	February 23, 2017	10(k)	
10(g)	Form of Restricted Stock Unit Award Agreement for Executive Officers under the Texas Instruments 2009 Long-Term Incentive Plan*	10-K	001-3761	February 23, 2017	10(l)	
10(h)	Texas Instruments 2009 Long-Term Incentive Plan as	DEF 14A	001-3761	March 9, 2016	Appendix B	Page 106 of 115

Designation of Exhibit	Description of Exhibit	Incorporated by Reference				Filed or Furnished Herewith
		Form	File Number	Date of Filing	Exhibit Number	
10(i)	Texas Instruments 2009 Director Compensation Plan as amended January 19, 2012	10-K	001-3761	February 23, 2017	10(n)	
10(j)	Texas Instruments 2018 Director Compensation Plan as amended December 5, 2019	10-K	001-3761	February 20, 2020	10(k)	
10(k)	Form of Non-Qualified Stock Option Award Agreement for Executive Officers effective as of January 18, 2024*					X
10(l)	Form of Restricted Stock Unit Award Agreement for Executive Officers effective as of January 18, 2024*					X
21	List of Subsidiaries of the Registrant					X
23	Consent of Independent Registered Public Accounting Firm					X
31(a)	Rule 13a-14(a)/15(d)-14(a) Certification of Chief Executive Officer					X
31(b)	Rule 13a-14(a)/15(d)-14(a) Certification of Chief Financial Officer					X
32(a)	Section 1350 Certification of Chief Executive Officer					X
32(b)	Section 1350 Certification of Chief Financial Officer					X
97	Texas Instruments Incorporated Recoupment Policy					X
101.ins	Instance Document					X
101.sch	XBRL Taxonomy Schema					X
101.cal	XBRL Taxonomy Calculation Linkbase					X
101.def	XBRL Taxonomy Definitions Document					X
101.lab	XBRL Taxonomy Labels Linkbase					X
101.pre	XBRL Taxonomy Presentation Linkbase					X
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)					X

* Management compensation plans and arrangements

Notice regarding forward-looking statements

This report includes forward-looking statements intended to qualify for the safe harbor from liability established by the Private Securities Litigation Reform Act of 1995. These forward-looking statements generally can be identified by phrases such as TI or its management “believes,” “expects,” “anticipates,” “foresees,” “forecasts,” “estimates” or other words or phrases of similar import. Similarly, statements herein that describe TI’s business strategy, outlook, objectives, plans, intentions or goals also are forward-looking statements. All such forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from those in forward-looking statements.

We urge you to carefully consider the following important factors that could cause actual results to differ materially from the expectations of TI or our management:

- Economic, social and political conditions, and natural events in the countries in which we, our customers or our suppliers operate, including global trade policies;
- Market demand for semiconductors, particularly in the industrial and automotive markets, and customer demand that differs from forecasts;
- Our ability to compete in products and prices in an intensely competitive industry;
- Evolving cybersecurity and other threats relating to our information technology systems or those of our customers, suppliers and other third parties;
- Our ability to successfully implement and realize opportunities from strategic, business and organizational changes, or our ability to realize our expectations regarding the amount and timing of associated restructuring charges and cost savings;
- Our ability to develop, manufacture and market innovative products in a rapidly changing technological environment, our timely implementation of new manufacturing technologies and installation of manufacturing equipment, and our ability to realize expected returns on significant investments in manufacturing capacity;
- Availability and cost of key materials, utilities, manufacturing equipment, third-party manufacturing services and manufacturing technology;
- Our ability to recruit and retain skilled personnel and effectively manage key employee succession;
- Product liability, warranty or other claims relating to our products, software, manufacturing, delivery, services, design or communications, or recalls by our customers for a product containing one of our parts;
- Compliance with or changes in the complex laws, rules and regulations to which we are or may become subject, or actions of enforcement authorities, that restrict our ability to operate our business or subject us to fines, penalties or other legal liability;
- Changes in tax law and accounting standards that impact the tax rate applicable to us, the jurisdictions in which profits are determined to be earned and taxed, adverse resolution of tax audits, increases in tariff rates, and the ability to realize deferred tax assets;
- Financial difficulties of our distributors or semiconductor distributors’ promotion of competing product lines to our detriment; or disputes with current or former distributors;
- Losses or curtailments of purchases from key customers or the timing and amount of customer inventory adjustments;
- Our ability to maintain or improve profit margins, including our ability to utilize our manufacturing facilities at sufficient levels to cover our fixed operating costs, in an intensely competitive and cyclical industry and changing regulatory environment;
- Our ability to maintain and enforce a strong intellectual property portfolio and maintain freedom of operation in all jurisdictions where we conduct business; or our exposure to infringement claims;
- Instability in the global credit and financial markets; and
- Impairments of our non-financial assets.

For a more detailed discussion of these factors, see the Risk factors discussion in Item 1A of this report. The forward-looking statements included in this report are made only as of the date of this report, and we undertake no obligation to update the forward-looking statements to reflect subsequent events or circumstances. If we do update any forward-looking statement, you should not infer that we will make additional updates with respect to that statement or any other forward-looking statement.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this Report to be signed on its behalf by the undersigned, thereunto duly authorized.

[illegible]

Date: February 2, 2024

Each person whose signature appears below constitutes and appoints each of Haviv Ilan, Rafael R. Lizardi, Julie C. Knecht and Cynthia Hoff Trochu, or any of them, each acting alone, his or her true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for such person and in his or her name, place and stead, in any and all capacities in connection with the annual report on Form 10-K of Texas Instruments Incorporated for the year ended December 31, 2023, to sign any and all amendments to the Form 10-K 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, each acting alone, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, 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 their substitutes or substitute, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this Report has been signed below by the following persons on behalf of the Registrant and in the capacities indicated as of the 2nd day of February 2024.

/s/ Mark A. Blinn		/s/ Todd M. Bluedorn
Mark A. Blinn , Director		Todd M. Bluedorn , Director
/s/ Janet F. Clark		/s/ Carrie S. Cox
Janet F. Clark , Director		Carrie S. Cox , Director
/s/ Martin S. Craighead		/s/ Curtis C. Farmer
Martin S. Craighead , Director		Curtis C. Farmer , Director
/s/ Jean M. Hobby		/s/ Ronald Kirk
Jean M. Hobby , Director		Ronald Kirk , Director
/s/ Pamela H. Patsley		/s/ Robert E. Sanchez
Pamela H. Patsley , Director		Robert E. Sanchez , Director
/s/ Richard K. Templeton		/s/ Haviv Ilan
Richard K. Templeton , Director and Chairman of the Board		Haviv Ilan , Director, President and Chief Executive Officer
/s/ Rafael R. Lizardi		/s/ Julie C. Knecht
Rafael R. Lizardi , Senior Vice President and Chief Financial Officer		Julie C. Knecht , Vice President and Chief Accounting Officer