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# THERMO FISHER SCIENTIFIC INC.

## **FORM 10-K**

(Annual Report)

Filed 02/22/24 for the Period Ending 12/31/23

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CIK 0000097745

Symbol TMO

SIC Code 3829 - Measuring & Controlling Devices, NEC

Fiscal Year 12/31

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## **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 or ☐ Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Commission file number 1-8002

## THERMO FISHER SCIENTIFIC INC.

(Exact name of Registrant as specified in its charter)

Delaware (State of incorporation) 04-2209186

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

168 Third Avenue Waltham, Massachusetts 02451 (Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (781) 622-1000

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

Title of each class	Trading Symbol(s)	Name of each exchange on which registere
Common Stock, \$1.00 par value	TMO	New York Stock Exchange
0.750% Notes due 2024	TMO 24A	New York Stock Exchange
0.125% Notes due 2025	TMO 25B	New York Stock Exchange
2.000% Notes due 2025	TMO 25	New York Stock Exchange
3.200% Notes due 2026	TMO 26B	New York Stock Exchange
1.400% Notes due 2026	TMO 26A	New York Stock Exchange
1.450% Notes due 2027	TMO 27	New York Stock Exchange
1.750% Notes due 2027	TMO 27B	New York Stock Exchange
0.500% Notes due 2028	TMO 28A	New York Stock Exchange
1.375% Notes due 2028	TMO 28	New York Stock Exchange
1.950% Notes due 2029	TMO 29	New York Stock Exchange
0.875% Notes due 2031	TMO 31	New York Stock Exchange
2.375% Notes due 2032	TMO 32	New York Stock Exchange
3.650% Notes due 2034	TMO 34	New York Stock Exchange
2.875% Notes due 2037	TMO 37	New York Stock Exchange
1.500% Notes due 2039	TMO 39	New York Stock Exchange
1.875% Notes due 2049	TMO 49	New York Stock Exchange

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes  $\boxtimes$  No  $\square$ Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 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 and (2) has been subject to such filing requirements for the past 90 days. Yes 🗵 No 🗆 Indicate by check mark whether the Registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months. Yes ⊠ No □

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

Large accelerated filer 

Accelerated filer 

Non-accelerated filer Smaller reporting company □ Emerging growth company □

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

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

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).  $\square$ 

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

As of June 30, 2023, the aggregate market value of the voting stock held by nonaffiliates of the Registrant was approximately \$ 201,176,616,000 (based on the last reported sale of common stock on the New York Stock Exchange Composite Tape reporting system on June 30, 2023).

As of February 3, 2024, the Registrant had 381,312,268 shares of Common Stock outstanding.

## **DOCUMENTS INCORPORATED BY REFERENCE**

Sections of Thermo Fisher's definitive Proxy Statement for the 2024 Annual Meeting of Shareholders (the "Proxy Statement") are incorporated by reference into Part III of this report.

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#### **PART I**

#### **Forward-looking Statements**

Forward-looking statements, within the meaning of Section 21E of the Securities Exchange Act of 1934 (the Exchange Act), are made throughout this Annual Report on Form 10-K. Any statements contained herein that are not statements of historical fact may be deemed to be forward-looking statements, including without limitation statements regarding: projections of revenues, expenses, earnings, margins, tax rates, tax provisions, cash flows, pension and benefit obligations and funding requirements, and our liquidity position; cost reductions, restructuring activities, new product and service developments, competitive strengths or market position, acquisitions or divestitures; growth, declines and other trends in markets we sell into; new or modified laws, regulations and accounting pronouncements; outstanding claims, legal proceedings, tax audits and assessments and other contingent liabilities; foreign currency exchange rates and fluctuations in those rates; general economic and capital markets conditions; the timing of any of the foregoing; assumptions underlying any of the foregoing; the COVID-19 pandemic; and any other statements that address events or developments that Thermo Fisher intends or believes will or may occur in the future. Without limiting the foregoing, the words "believes," "anticipates," "plans," "expects," "seeks," "estimates," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements are accompanied by such words. While the company may elect to update forward-looking statements in the future, it specifically disclaims any obligation to do so, even if the company's estimates change, and readers should not rely on those forward-looking statements as representing the company's views as of any date subsequent to the date of the filing of this report. A number of important factors could cause the results of the company to differ materially from those indicated by such forward-looking statements, including those detailed under the heading, "Risk Factors" in Part I. Item 1A.

#### Item 1. Business

## **Description of Business**

Thermo Fisher Scientific Inc. (also referred to in this document as "Thermo Fisher," "we," the "company," or the "registrant") is the world leader in serving science. Our Mission is to enable our customers to make the world healthier, cleaner and safer. We serve customers working in pharmaceutical and biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies, as well as environmental, industrial, research and development, quality and process control settings. Our global team delivers an unrivaled combination of innovative technologies, purchasing convenience and pharmaceutical services through our industry-leading brands, including Thermo Scientific, Applied Biosystems, Invitrogen, Fisher Scientific, Unity Lab Services, Patheon and PPD.

We continuously increase our depth of capabilities across our broad portfolio of innovative products and services and leverage our extensive global channels to address our customers' needs. We do this through organic investments in research and development, capacity and capabilities and through acquisitions. Our goal is to enable our customers to be more productive in an increasingly competitive business environment, enable them to accelerate innovation, solve their challenges and advance their important work.

#### **Business Segments and Products**

We report our business in four segments – Life Sciences Solutions, Analytical Instruments, Specialty Diagnostics, and Laboratory Products and Biopharma Services.

## Life Sciences Solutions Segment

Through our Life Sciences Solutions segment, we provide an extensive portfolio of reagents, instruments and consumables used in biological and medical research, discovery and production of new drugs and vaccines as well as diagnosis of infection and disease. These products and services are used by customers in pharmaceutical, biotechnology, agricultural, clinical, healthcare, academic, and government markets. Life Sciences Solutions includes three primary businesses – Biosciences, Genetic Sciences, and BioProduction.

Our biosciences business includes reagents, instruments and consumables that help our customers conduct biological and medical research in areas such as molecular biology and protein biology, discover new drugs and vaccines, and enable the diagnosis of infection and disease. Our genetic sciences business combines a wide variety of instruments and related reagents used to provide high-value genomic solutions to assist customer decisions in the research, clinical, healthcare and applied markets. Our bioproduction business supports developers and manufacturers of biological-based therapeutics and vaccines with a portfolio of premium solutions and services focused on upstream cell culture, downstream purification, analytics for detection and quantitation of process/product impurities, and a suite of single-use solutions spanning the biologics workflow.

#### Analytical Instruments Segment

Through our Analytical Instruments segment, we provide a broad offering of instruments and the supporting consumables, software and services that are used for a range of applications. These products and services are used by customers in pharmaceutical, biotechnology, academic, government, environmental and other research and industrial markets, as well as the clinical laboratory. This segment includes three primary businesses – Chromatography and Mass Spectrometry, Chemical Analysis, and Electron Microscopy.

Our chromatography and mass spectrometry business develops and provides analytical instrumentation for organic and inorganic sample analysis across both applied technologies and scientific research. Our chemical analysis products fall into three main categories: production, process and analytics; field and safety instruments; and environmental and process instruments. Our electron microscopy business serves customers in the life sciences, materials sciences, and semiconductor markets providing leading research tools; and also, in the semiconductor market provides integrated workflows that power research development and production solutions.

#### Specialty Diagnostics Segment

Our Specialty Diagnostics segment offers a wide range of diagnostic test kits, reagents, culture media, instruments and associated products to serve customers in healthcare, clinical, pharmaceutical, industrial, and food safety laboratories. Our healthcare products are used to increase the speed and accuracy of diagnoses, which improves patient care in a more cost-efficient manner. This segment has five primary businesses – Clinical Diagnostics, ImmunoDiagnostics, Microbiology, Transplant Diagnostics and our Healthcare Market Channel.

Our clinical diagnostics products include a broad offering of liquid, ready-to-use and lyophilized immunodiagnostic reagent kits, calibrators, controls, protein detection assays, and instruments. Such products are used for, among other things, drugs-of-abuse testing, therapeutic drug monitoring, thyroid hormone testing, sepsis screening, serum toxicity, first trimester screening, tumor markers testing, and the diagnosis and monitoring of multiple myeloma. Our immunodiagnostics offerings include developing, manufacturing and marketing complete blood-test systems to support the clinical diagnosis and monitoring of allergy, asthma and autoimmune diseases. Our microbiology offerings include dehydrated and prepared culture media, collection and transport systems, instrumentation and consumables to detect pathogens in blood, diagnostic and rapid direct specimen tests, quality-control products and associated products for the microbiology laboratory. Our transplant diagnostics products include human leukocyte antigen typing and testing for the organ transplant market. Our healthcare market channel offerings include a broad array of consumables, diagnostic kits and reagents, equipment, instruments, solutions and services for hospitals, clinical laboratories, reference laboratories, physicians' offices and other clinical testing facilities.

## Laboratory Products and Biopharma Services Segment

Our Laboratory Products and Biopharma Services segment offers virtually everything needed for the laboratory. Our unique combination of self-manufactured and sourced products and extensive service offering enables our customers to focus on their core activities and helps them to be more innovative, productive and cost-efficient. The segment also includes a comprehensive offering of outsourced services used by the pharmaceutical and biotech industries for drug development, clinical research, clinical trials services and commercial drug manufacturing. We serve the pharmaceutical, biotechnology, academic, government and other research and industrial markets, as well as the clinical laboratory market through four key businesses: Laboratory Products, Research and Safety Market Channel, Pharma Services and Clinical Research.

Our laboratory products include lab consumables, equipment and chemicals that are used for life science research and drug discovery and development to advance the prevention and cure of diseases and enhance quality of life. Our research and safety market channel offers a mix of products that are manufactured by Thermo Fisher, by third parties for us on a private-label basis, and by third parties under their brands but offered for sale through us. Our pharma services business provides the entire spectrum of development, manufacturing and clinical trials services for both small-molecule and large-molecule pharmaceuticals. Our clinical research business offers comprehensive, integrated clinical development and analytical services including all phases of development (i.e., Phases I-IV), peri- and post-approval and site and patient access services.

#### Sales and Marketing

We market and sell our products and services through a direct sales force, customer-service professionals, electronic commerce and third-party distributors. Our global team delivers a combination of innovative technologies, purchasing convenience and pharmaceutical services through our industry-leading brands, including Thermo Scientific, Applied Biosystems, Invitrogen, Fisher Scientific, Unity Lab Services, Patheon and PPD.

We have approximately 14,000 sales personnel including highly trained technical specialists who enable us to better meet the needs of our more technical end-users. We also provide customers with product standardization and other supply-chain-management services to reduce procurement costs.

#### **New Products and Research and Development**

Our business includes the development and introduction of new products and may include entry into new business segments. We anticipate that we will continue to make significant expenditures for research and development as we seek to provide a continuing flow of innovative products to maintain and improve our competitive position.

#### Resources

#### Raw Materials

Our management team believes that we have a readily available supply of raw materials for all of our significant products from various sources. No single supplier is material, although for reasons of quality assurance, regulatory requirements, cost effectiveness, availability or uniqueness of design, certain materials components may be sourced from a single supplier or a limited number of suppliers that can readily provide such materials or components.

Raw material and fuel prices are subject to fluctuations due to market conditions. We employ many strategies, including the use of alternative materials, to mitigate the effect of these fluctuations on our results.

#### Patents, Licenses and Trademarks

Patents are important in many aspects of our business. No particular patent, or related group of patents, is so important, however, that its loss would significantly affect our operations as a whole. Where appropriate, we seek patent protection for inventions and developments made by our personnel that are incorporated into our products or otherwise fall within our fields of interest. Patent rights resulting from work sponsored by outside parties do not always accrue exclusively to the company and may be limited by agreements or contracts.

We protect some of our technology as trade secrets and, where appropriate, we use trademarks or register trademarks used in connection with products. We also enter into license agreements with others to grant and/or receive rights to intellectual property rights.

All trademarks, trade names, product names, graphics and logos of Thermo Fisher contained herein are trademarks or registered trademarks of Thermo Fisher or its subsidiaries, as applicable, in the United States and/or other countries. Solely for convenience, we may refer to trademarks in this Annual Report on Form 10-K without the  $^{\text{TM}}$  and  $^{\text{RM}}$  symbols. Such references are not intended to indicate, in any way, that we will not assert, to the fullest extent permitted by law, our rights to our trademarks. To the extent other trademarks appear in this Annual Report on Form 10-K, they are the property of their respective owners.

#### **Seasonal Influences**

Revenues in the fourth quarter are historically stronger than in other quarters due to the capital spending patterns of industrial, pharmaceutical and government customers. Sales of seasonal products, such as allergy and flu tests and related diagnostic products, vary quarter to quarter and year to year.

#### Competition

The company encounters aggressive and able competition in virtually all of the markets we serve. Because of the diversity of our products and services, we face many different types of competitors and competition. Our competitors include a broad range of manufacturers, third-party distributors and service providers. Competitive climates in many of the markets we serve are characterized by changing technology and customer demands that require continuing research and development. Our success primarily depends on the following factors:

- technical performance and advances in technology that result in new products and improved price/performance ratios;
- · product differentiation, availability and reliability;
- · the depth of our capabilities;
- our reputation among customers as a quality provider of products and services;
- customer service and support;
- · active research and application-development programs; and
- relative prices of our products and services.

#### **Government Regulation**

#### Environmental Regulations

We are subject to various laws and governmental regulations concerning environmental matters and employee safety and health in the United States and other countries. U.S. federal environmental legislation that affects us includes the Toxic Substances Control Act, the Resource Conservation and Recovery Act, the Clean Air Act, the Clean Water Act, the Safe Drinking Water Act, and the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). We are also subject to regulation by the Occupational Safety and Health Administration (OSHA) concerning employee safety and health matters. The United States Environmental Protection Agency (USEPA), OSHA, and other federal agencies have the authority to promulgate regulations that have an effect on our operations.

In addition to these federal laws and regulations, various states have been delegated certain authority under the aforementioned federal statutes and have authority over these matters under state laws. Many state and local governments have adopted environmental and employee safety and health laws and regulations, some of which are similar to federal requirements.

A number of our operations involve the handling, manufacturing, use or sale of substances that are or could be classified as toxic or hazardous materials within the meaning of applicable laws. Consequently, some risk of environmental harm is inherent in our operations and products, as it is with other companies engaged in similar businesses.

Our expenses for environmental requirements are incurred generally for ongoing compliance and historical remediation matters. Based on current information, we believe that these compliance costs are not material. For historical remediation obligations, our expenditures relate primarily to the cost of permitting, installing, and operating and maintaining groundwater-treatment systems and other remedial measures.

Our Fair Lawn and Somerville, New Jersey facilities entered into administrative consent orders with the New Jersey Department of Environmental Protection in 1984 to maintain groundwater-remediation activities at these sites, and are currently under the State's Licensed Site Remediation Professional Program. As the owner of the Fair Lawn facility, we are listed as a potentially responsible party for remediation within an area called the Fair Lawn Wellfields Superfund Site, and, in 2008, the company and certain other parties entered into a consent order with the USEPA to complete a Remedial Investigation/Feasibility Study. In 2018, the USEPA issued a Record of Decision, setting forth the scope of required remediation work at the site, which includes upgrading a water treatment plant to address constituents such as chlorinated organic compounds, 1,4-dioxane, and perfluorooctanoic acid/perfluorooctane sulfonate (PFOA/PFOS). In 2020, the court approved a consent decree that requires the company and another responsible party to finance and perform the required remediation work with USEPA oversight. In 2023, the design of a groundwater treatment plant was fully approved by USEPA. Construction is expected to commence in 2024, and the plant is expected to be fully operating by April 2025.

In 2011, our Life Technologies subsidiary entered into a consent decree with the USEPA and other responsible parties to implement a groundwater remedy at the former Davis Landfill Superfund site in Smithfield, Rhode Island. After years of additional study, in September, 2020, USEPA revised its cleanup plan by selecting an interim remedial approach that includes groundwater treatment followed by additional monitoring of site conditions. Depending on the results of these treatment and monitoring activities over the next several years, USEPA anticipates selecting a final groundwater remedy for the site. In November 2021, the 2011 consent decree was amended to reflect the parties' obligations to implement USEPA's interim remedy, for which pre-design work commenced during 2022 and is ongoing.

We record accruals for environmental liabilities based on current interpretations of environmental laws and regulations when it is probable that a liability has been incurred and the amount of such liability can be reasonably estimated. We calculate estimates based upon several factors, including reports prepared by environmental specialists and management's knowledge and experience with these environmental matters. We include in these estimates potential costs for investigation, remediation and operation and maintenance of cleanup sites. Accrued liabilities for environmental matters totaled \$75 million at December 31, 2023.

These environmental liabilities do not include third-party recoveries to which we may be entitled. We believe that our accrual is adequate for the environmental liabilities we currently expect to incur. As a result we believe that our ultimate liability with respect to environmental matters will not have a material adverse effect on our financial position, results of operations or cash flows. However, we may be subject to remedial or compliance costs due to future events, such as changes in existing laws and regulations, changes in agency direction or enforcement policies, developments in remediation technologies, changes in the conduct of our operations, and the effect of changes in accounting rules, which could have a material adverse effect on our financial position, results of operations or cash flows. For a discussion of the environmental laws and regulations that the Company's operations, products and services are subject to and other environmental contingencies, refer to Note 12 to our Consolidated Financial Statements.

#### Other Laws and Regulations

Our operations, and some of the products and services we offer, are subject to a number of complex and stringent laws and regulations governing the development, testing, approval, production, handling, transportation and distribution of chemicals, drugs and other similar products, including the operating and security standards of the Food and Drug Administration, the Drug Enforcement Administration, the Bureau of Alcohol, Tobacco, Firearms and Explosives, and various state boards of pharmacy as well as comparable state and foreign agencies. As Thermo Fisher's businesses also include export and import activities, we are subject to pertinent laws enforced by the U.S. Departments of Commerce, State and Treasury. In addition, our logistics activities must comply with the rules and regulations of the Department of Transportation, the Federal Aviation Administration and similar foreign agencies. While we believe we are in compliance in all material respects with such laws and regulations, any noncompliance could result in substantial fines or otherwise restrict our ability to provide competitive distribution services and thereby have an adverse effect on our financial condition. To date, no such laws or regulations have had a material impact on our operations.

We are subject to laws and regulations governing government contracts, and failure to address these laws and regulations or comply with government contracts could harm our business by leading to a reduction in revenues associated with these customers. We have agreements relating to the sale of our products to government entities and, as a result, we are subject to various statutes and regulations that apply to companies doing business with the government. We are also subject to investigation for compliance with the regulations governing government contracts. A failure to comply with these regulations could also result in suspension of these contracts, criminal, civil and administrative penalties or debarment.

For a discussion of risks related to changes in governmental regulations, refer to "Risk Factors" in Part I, Item 1A.

#### **Human Capital**

The success of Thermo Fisher is fueled by colleagues who are highly engaged and feel empowered to achieve their goals. Everything we do starts with our Mission – to enable our customers to make the world healthier, cleaner and safer. Our colleagues understand the role they play in fulfilling that Mission and that inspires them to bring their best to work each day. Our Mission is not only a differentiator for us externally, but a motivator for us internally.

Our culture is rooted in our 4i Values of Integrity, Intensity, Innovation and Involvement. Within this framework, we strive to create a safe, fair and positive working environment for our colleagues around the world. We want our teams to feel they have a stake in our success, a voice in our direction and to be empowered to make a difference for the key stakeholders we serve.

Every year, we conduct an Employee Involvement Survey to solicit direct feedback from our colleagues on what we're doing well and where we need to improve. We then compile the feedback to measure our progress using three key indices: Leadership, Involvement and Inclusion. Our continued focus on enhancing our culture helps position our company to be an even better place to work.

We are committed to maintaining the strongest team in our industry, focusing on developing and retaining our colleagues, while leveraging our leadership to attract new colleagues to our company. As of December 31, 2023, we employed approximately 122,000 colleagues globally, with an approximate regional distribution as follows: 61,000 based in the Americas, 20,000 in the Asia Pacific region, and nearly 41,000 in Europe, the Middle East and Africa (EMEA).

#### Culture of Inclusion

We recognize that the future aspirations outlined in our Vision for 2030, which serves as our long-term roadmap, will only be achievable if we have a culture that values diversity of backgrounds, experiences and viewpoints. When differences among colleagues are welcomed and supported, we create an inclusive workplace that unlocks the true benefits of diversity and promotes conditions for sustained success.

Diversity and Inclusion (D&I) is not an initiative at Thermo Fisher. It's woven into the fabric of our culture, and our ways of working, embedded in every stage of our colleague lifecycle - from recruiting to onboarding, training, development and longer-term career planning. Our colleagues are encouraged to openly share the wide range of perspectives they represent. Progress is measured and reviewed on a range of D&I factors to help inform our efforts and initiatives, including those related to diversity within our workforce. We understand the critical role diversity plays in sustained business success, so we strive to have a workforce that represents the customers we serve. Further, to provide additional transparency to our U.S. workforce demographics, following our report submission to the U.S. Equal Employment Opportunity Commission, we disclose our EEO-1 report on our website each year.

Our inclusive culture is a competitive advantage, and we prioritize colleague engagement and empowerment to contribute, collaborate and innovate. For example, in 2023, Thermo Fisher was recognized as a Top Company for Women and Best Employer for Diversity by Forbes, a Best Place to Work for Disability Inclusion, and a top scorer on the Human Rights

Campaign's Corporate Equality Index for LGBTQ inclusion. Establishing this kind of environment is critical for our colleagues, where they can contribute their best ideas and bring their true selves to work each day.

We are also committed to ensuring our colleagues have access to resources, awareness training and internal networks that offer support and guidance. Our D&I strategy is greatly enabled by our Business Resource Groups (BRGs), which bring together individuals with similar interests to share experiences, learn from each other and collaborate to identify solutions to business challenges. Our BRGs reinforce that all colleagues can make a difference for our customers, for each other and for our company. As of December 31, 2023, we had 9 global BRGs, with more than 230 local BRG chapters.

#### Talent Development

Our overarching goal from a talent perspective is to create opportunities for our colleagues to achieve their full potential and career aspirations here at Thermo Fisher. We focus on the entire lifecycle of a colleague's career, from their initial recruitment, to onboarding, through ongoing development. We encourage and support colleagues to enhance their skills so they are in the best position to deliver on their goals and achieve their career objectives.

In today's environment, we know talent is a key differentiator, and that building the strongest team in the industry is critical to our future. From our colleague referral program, summer internships, university relations, to our Graduate Leadership Development Program, we continue to build strong internal and external sourcing channels.

Once on board, talent development at Thermo Fisher is a key organizational capability. We continue to make significant investments to support our colleagues along every step of their career journey to help support their success. Our talent development framework incorporates a multi-faceted approach, including formal and self-paced training, networking opportunities, on-the-job stretch learning, coaching, mentoring and manager training utilizing contemporary technology solutions to support the broad needs of our workforce.

We provide multiple programs at all career levels, from online learning for all colleagues through Thermo Fisher University, to focused trainings for managers at various experience levels, to our Global Leadership Program for executives. We also support our colleagues' career advancement through our tuition reimbursement program.

In a company our size, we can also actively manage our talent through rotational opportunities across our businesses, functions and geographies that help our colleagues gain new experiences, share knowledge and broaden their skills. Our executives and leaders participate in frequent talent discussions as well as formal reviews, leveraging workforce data and predictive analytics to better anticipate the talent requirements of our business based on our growth opportunities and market demand.

Thermo Fisher is dedicated to talent development to meet our evolving business needs and to provide our colleagues with opportunities for long and fulfilling careers. Our colleagues are passionate about our company, and their role in our success, and it's our responsibility to help them reach their full potential.

#### Total Rewards

We offer a comprehensive total rewards package that we regularly evaluate and measure against established benchmarks to ensure its effectiveness in recruiting and retention, and to position Thermo Fisher as an employer of choice.

Our health and wellness programs provide competitive, flexible programs that our global colleagues and their families can count on. For example, for U.S. colleagues, we offer a choice of comprehensive national medical, dental and vision plans; a wellness program, including valuable health incentive opportunities and tax-advantaged savings and spending accounts; as well as commuter benefits, employee assistance programs, optional group legal coverage, and company-paid disability, accident and life insurance. We also offer a company-paid proprietary program for cancer care called the Impact Program, which gives our colleagues and their families access to personalized support and direct lines of communication to experts in cancer genetics and genomics. Similar benefits are available in all countries around the world where we operate.

We also invest in our colleagues' financial health, helping them to grow and protect their savings, plan for the future and share in the success of the company they are helping to build. We deliver comprehensive rewards, including competitive base pay, and also provide a variety of incentive and equity programs that, by design, directly link the impact of colleague contributions to the company's overall success.

#### **Available Information**

The company files annual, quarterly and current reports, proxy statements and other documents with the Securities and Exchange Commission (SEC) under the Exchange Act. The SEC maintains a website that contains reports, proxy and information statements and other information that issuers, including the company, file electronically with the SEC. The public can obtain any documents that we file with the SEC at www.sec.gov. We also make available free of charge on or through our own website at www.thermofisher.com our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on

Form 8-K and, if applicable, amendments to those reports filed or furnished pursuant to Section 13(a) of the Exchange Act as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. In addition, paper copies of these documents may be obtained free of charge by writing to the company care of its Investor Relations Department at our principal executive office located at 168 Third Avenue, Waltham, Massachusetts 02451.

#### **Information about Our Executive Officers**

As of February 22, 2024, our executive officers were:

		Present Title	
Name	Age	(Fiscal Year First Became Executive Officer)	Other Positions Held
Marc N. Casper	55	Chairman, President and Chief Executive Officer (2001)	President and Chief Executive Officer (2009-2020) Chief Operating Officer (2008-2009) Executive Vice President (2006-2009)
Stephen Williamson	57	Senior Vice President and Chief Financial Officer (2015)	Vice President, Financial Operations (2008-2015)
Michel Lagarde	50	Executive Vice President and Chief Operating Office (2017)	r Executive Vice President (2019-2021) Senior Vice President and President, Pharma Services (2017-2019) President and Chief Operating Officer, Patheon N.V. (2016-2017)
Gianluca Pettiti	45	Executive Vice President (2021)	Senior Vice President and President, Specialty Diagnostics (2019-2021) President, Biosciences (2018-2019) President, China (2015-2017)
Michael A. Boxer	62	Senior Vice President and General Counsel (2018)	Senior Vice President, General Counsel and Secretary (2021-2022)
Lisa P. Britt	55	Senior Vice President and Chief Human Resources Officer (2017)	
Joseph R. Holmes	45	Vice President and Chief Accounting Officer (2021)	Senior Director, Technical Accounting (2017-2021)

#### Item 1A. Risk Factors

Set forth below are the risks, some of which have occurred and any of which may occur in the future, that we believe are material to our investors. This section contains forward-looking statements. You should refer to the explanation of the qualifications and limitations on forward-looking statements in <a href="Lem 1. Business"><u>Ltem 1. Business</u></a> under the caption "Forward-looking Statements".

#### **Industry and Economic Risks**

Our growth would suffer if the markets into which we sell our products and services decline, do not grow as anticipated or experience cyclicality. Our growth depends in part on the growth of the markets which we serve. Any decline or lower than expected growth in our served markets would diminish demand for our products and services, which would adversely affect our financial statements. Certain of our businesses operate in industries that may experience periodic, cyclical downturns.

**Our business is affected by general economic conditions and related uncertainties affecting markets in which we operate.** Our business is affected by general economic conditions, both inside and outside the U.S. Both domestic and international markets experienced significant inflationary pressures in 2023 and inflation rates in the U.S., as well as in other countries in which we operate, continue at elevated levels. If the global economy and financial markets, or economic conditions in Europe, the U.S. or other key markets, continue to be unstable, they could adversely affect the business, results of operations and financial condition of the company and its customers, distributors, and suppliers, having the effect of:

- reducing demand for some of our products;
- increasing the rate of order cancellations or delays;
- · increasing the risk of excess and obsolete inventories;
- · increasing pressure on the prices for our products and services;
- causing supply interruptions, which could disrupt our ability to produce our products; and
- creating longer sales cycles, and greater difficulty in collecting sales proceeds and slower adoption of new technologies.

**Economic, political, foreign currency and other risks associated with international sales and operations could adversely affect our results of operations.** International markets contribute a substantial portion of our revenues, and we intend to continue expanding our presence in these regions. The exposure to fluctuations in currency exchange rates takes on different forms. International revenues and costs are subject to the risk that fluctuations in exchange rates could adversely affect our reported revenues and profitability when translated into U.S. dollars for financial reporting purposes. These fluctuations could also adversely affect the demand for products and services provided by us. As a multinational corporation, our businesses occasionally invoice third-party customers in currencies other than the one in which they primarily do business (which we refer to as the functional currency). Movements in the invoiced currency relative to the functional currency could adversely impact our cash flows and our results of operations. As our international sales grow, exposure to fluctuations in currency exchange rates could have a larger effect on our financial results. In 2023, currency translation had an unfavorable effect of \$0.02 billion on revenues due to the strengthening of the U.S. dollar relative to other currencies in which the company sells products and services.

Some emerging market countries may be particularly vulnerable to periods of global and local political, legal, regulatory and financial instability, including issues of geopolitical relations, the imposition of international sanctions in response to certain state actions and/or sovereign debt issues, and may have a higher incidence of corruption and fraudulent business practices. As a result of these and other factors, our strategy to grow in emerging markets may not be successful, and growth rates in these markets may not be sustainable.

In addition, many of our employees, contract manufacturers, suppliers, job functions, outsourcing activities and manufacturing facilities are located outside the U.S. Accordingly, our future results could be harmed by a variety of factors, including:

- interruption to transportation flows for delivery of parts to us and finished goods to our customers;
- changes in a specific country's or region's political, economic, social or other conditions;
- changes in diplomatic and trade relationships, including new tariffs, trade protection measures, import or export licensing requirements, trade embargoes and sanctions and other trade barriers;
- tariffs imposed by the U.S. on goods from other countries and tariffs imposed by other countries on U.S. goods, including the tariffs adopted by the U.S. government on various imports from China and by the Chinese government on certain U.S. goods;
- the impact of public health emergencies, pandemics, epidemics or other health outbreaks on the global economy, such as the COVID-19 pandemic;
- uncertainties regarding the collectability of accounts receivable;
- the imposition of governmental controls:
- diverse data privacy and protection requirements;
- supply interruptions, which could disrupt our ability to produce our products;
- increases in materials, energy, labor or other manufacturing-related costs or higher supply chain logistics costs;
- negative consequences from changes in or interpretation of laws and regulations, including those related to tax and import/export;
- difficulty in staffing and managing widespread operations;
- · differing labor regulations;
- · differing protection of intellectual property;
- unexpected changes in regulatory requirements; and
- geopolitical uncertainty or turmoil, including terrorism and war.

**Demand for some of our products depends on capital spending policies of our customers and on government funding policies.** Our customers include pharmaceutical and chemical companies, laboratories, universities, healthcare providers, government agencies and public and private research institutions. Many factors, including public policy spending priorities, available resources, and product and economic cycles, have a significant effect on the capital spending policies of these entities. Spending by some of these customers fluctuates based on budget allocations and the timely passage of the annual federal budget. An impasse in federal government budget decisions could lead to substantial delays or reductions in federal spending.

We are subject to risks associated with public health emergencies, pandemics, epidemics, or other health outbreaks. Our global operations expose us to risks associated with public health emergencies, epidemics, pandemics and other health outbreaks, including the COVID-19 pandemic. COVID-19 had an adverse impact on certain of our operations, supply chains and distribution systems, and we may experience unpredictable reductions in supply and demand for certain of our products and services. National, state and local governments have implemented and may continue to implement safety precautions, including quarantines, border closures, increased border controls, travel restrictions, shelter in place orders and shutdowns and other measures. These measures may disrupt normal business operations and may have significant negative impacts on businesses and financial markets worldwide. Our ability to continue to manufacture products is highly dependent on our ability to maintain the safety and health of our factory employees. The ability of our employees to work may be significantly impacted by future epidemics and pandemics. In addition, the duration and extent of future revenues from sales of products related to the COVID-19 response are uncertain and dependent primarily on customer testing demand as well as therapy and vaccine demand.

#### Business Risks

We must develop new products, adapt to rapid and significant technological change, respond to introductions of new products by competitors and maintain quality to remain competitive. Our growth strategy includes significant investment in and expenditures for product development. We sell our products in several industries that are characterized by rapid and significant technological changes, frequent new product and service introductions and enhancements and evolving industry standards. Competitive factors include technological innovation, price, service and delivery, breadth of product line, customer support, ebusiness capabilities and the ability to meet the special requirements of customers. Our competitors may adapt more quickly to new technologies and changes in customers' requirements than we can. Without the timely introduction of new products, services and enhancements, our products and services will likely become technologically obsolete over time, in which case our revenues and operating results would suffer.

Many of our existing products and those under development are technologically innovative and require significant planning, design, development and testing at the technological, safety, quality, product and manufacturing-process levels. Our customers use many of our products to develop, test and manufacture their own products. As a result, we must anticipate industry trends and develop products in advance of the commercialization of our customers' products. If we fail to adequately develop products or predict our customers' needs and future activities, we may invest heavily in research and development of products and services that do not lead to significant revenues.

It may be difficult for us to implement our strategies for improving internal growth. Our growth depends in part on the growth of the markets which we serve. Any decline or lower than expected growth in our served markets could diminish demand for our products and services, which would adversely affect our results of operations and financial condition. To address this issue, we are pursuing a number of strategies to improve our internal growth, including:

- · strengthening our presence in selected geographic markets;
- · allocating research and development funding to products with higher growth prospects;
- · developing new applications for our technologies;
- expanding our service offerings;
- · continuing key customer initiatives;
- combining sales and marketing operations in appropriate markets to compete more effectively;
- finding new markets for our products; and
- continuing the development of commercial tools and infrastructure to increase and support cross-selling opportunities of products and services to take advantage of our depth in product offerings.

We may not be able to successfully implement these strategies, and these strategies may not result in the expected growth of our business.

Because we compete directly with certain of our larger customers and product suppliers, our results of operations could be adversely affected in the short term if these customers or suppliers abruptly discontinue or significantly modify their relationship with us. Our largest customer in the laboratory products business is also a significant competitor. Our business may be harmed in the short term if our competitive relationship in the marketplace with certain of our large customers results in a discontinuation of their purchases from us. In addition, we manufacture products that compete directly with products that we source from third-party suppliers. We also source competitive products from multiple suppliers. Our business could be adversely affected in the short term if any of our large third-party suppliers abruptly discontinues selling products to us.

Our inability to complete any pending acquisitions or to successfully integrate any new or previous acquisitions could have a material adverse effect on our business. Our business strategy includes the acquisition of technologies and businesses that complement or augment our existing products and services. Certain acquisitions may be difficult to complete for a number of reasons, including the need for antitrust and/or other regulatory approvals, as well as disputes or litigation. Any acquisition we may complete may be made at a substantial premium over the fair value of the net identifiable assets of the acquired company. Further, we may not be able to integrate acquired businesses successfully into our existing businesses, make such businesses profitable, or realize anticipated cost savings or synergies, if any, from these acquisitions, which could adversely affect our business.

Moreover, we have acquired many companies and businesses. As a result of these acquisitions, we recorded significant goodwill and indefinite-lived intangible assets (primarily tradenames) on our balance sheet, which amount to approximately \$44.02 billion and \$1.24 billion, respectively, as of December 31, 2023. In addition, we have definite-lived intangible assets totaling \$15.44 billion as of December 31, 2023. We assess the realizability of goodwill and indefinite-lived intangible assets annually as well as whenever events or changes in circumstances indicate that these assets may be impaired. We assess the realizability of definite-lived intangible assets whenever events or changes in circumstances indicate that these assets may be impaired. These events or circumstances would generally include operating losses or a significant decline in earnings associated with the acquired business or asset. Our ability to realize the value of the goodwill and intangible assets will depend on the future cash flows of these businesses. These cash flows in turn depend in part on how well we have integrated these businesses. If we are not able to realize the value of the goodwill and intangible assets, we may be required to incur material charges relating to the impairment of those assets.

#### Operational Risks

Our reliance upon sole or limited sources of supply for certain materials or components could cause production interruptions, delays and inefficiencies. Some of our businesses purchase certain materials from sole or limited source suppliers for reasons of quality assurance, regulatory requirements, cost effectiveness, availability or uniqueness of design. If these or other suppliers encounter financial, operating or other difficulties, or if our relationship with them changes, we might not be able to quickly establish or qualify replacement sources of supply. The supply chains for our businesses could also be disrupted by supplier capacity constraints, bankruptcy or exiting of the business for other reasons, decreased availability or increased cost of key raw materials or commodities, such as energy, and external events such as global economic downturns and macroeconomic trends, natural disasters, pandemic health issues such as COVID-19, war, terrorist actions, governmental actions and legislative or regulatory changes. Any of these factors could result in production interruptions, delays, extended lead times and inefficiencies.

A significant cyber-attack or other disruption in, or breach in security of, our information technology systems could adversely harm our operating results and financial condition, damage our reputation or otherwise materially harm our business. We rely on information technology systems to process, transmit and store electronic information (including sensitive data such as confidential business information, medical information, financial data and personally identifiable data relating to employees, customers and other business partners) and to manage or support a variety of critical business processes and activities (such as interacting with suppliers, selling our products and services, fulfilling orders and billing, collecting and making payments, shipping products, providing services and support to customers, tracking customer activity, fulfilling contractual obligations and otherwise conducting business). We use a risk-based approach to implementing security controls, reviewing the security controls of certain key business partners and third-party service providers and conducting due diligence on companies we propose to acquire. Despite our efforts, any particular system we operate or use may be susceptible to compromise of a vulnerability or a privileged account, damage or interruption from natural disasters, power loss, telecommunication failures, data center failure, third party provider failures (including failures at cloud services), hardware and software failures, human error or sabotage, terrorist attacks, geopolitical events, computer hackers, computer viruses, ransomware, phishing, computer denial-of-service attacks, unauthorized access to customer or employee data or company trade secrets, and other attempts to harm our systems and access our information.

We and our third-party providers experience cyber-attacks and other attempts to gain unauthorized access to our products, services, and systems and data on a regular basis, and we anticipate continuing to be subject to such attempts as cyber-attacks become increasingly sophisticated and more difficult to predict and protect against, particularly with the advancement of artificial intelligence. Despite our and our third-party providers' implementation of security measures, our products, services, and systems and data, are vulnerable to cyber-attacks, data breaches, malware, inadvertent error, disruptions, tampering or other theft or misuse, including by employees, contingent workers, malicious actors, or nation-states or their agents. Although most of our systems leverage data backups, our disaster recovery planning is not sufficient for every eventuality. In addition, our customers rely upon our products (i.e. instruments, etc.) within their environments, which may be at risk of compromise. Risks affecting our products may include those associated with remote access solutions, system vulnerabilities, or delay of security updates, which may require customers to take action such as network isolation, password change, or manual update.

Cyber-attacks, disruptions or other incidents described above, or breaches of security in our networks, in our customers' or third-party providers' networks, in third-party products we use, or in cloud-based services provided to us, regardless of whether the breach is attributable to a vulnerability in our products or services, a privileged account compromise, or a failure to maintain the digital security infrastructure or security tools that protect the integrity of our products, services, and systems and data, could materially interrupt our operations or our customer's operations, delay production and shipments, impact quality, result in theft of our and our customers' intellectual property and trade secrets, damage our reputation or key relationships, result in defective products or services, legal claims and proceedings, liability and penalties under privacy laws and increased cost for security and remediation, in each case resulting in an adverse effect on our business and financial results.

A violation of data privacy laws could adversely harm our operating results and financial condition, damage our reputation or otherwise materially harm our business. If we are unable to maintain reliable information technology systems and appropriate controls with respect to global data privacy and security requirements, we may suffer regulatory consequences in addition to business consequences. As a global organization, we are subject to data privacy and security laws, regulations, and customer-imposed controls in numerous jurisdictions as a result of producing, collecting, processing, storing and transmitting confidential, personal and/or sensitive data in the course of our business. For example, in the U.S., individual states regulate data breach and security requirements and multiple governmental bodies assert authority over aspects of the protection of personal privacy. European laws require us to have an approved legal mechanism to transfer personal data out of Europe, and the EU General Data Protection Regulation imposes significantly stricter requirements in how we collect and process personal data. Several countries, such as China, have passed laws that require personal data relating to their citizens to be maintained on local servers and impose additional data transfer restrictions. Government enforcement actions can be costly and interrupt the regular operation of our business, and data breaches or violations of data privacy laws can result in fines, reputational damage and civil lawsuits, any of which may adversely affect our business, reputation and financial statements.

Our success is largely dependent upon our ability to attract and retain a highly qualified workforce, comprised of scientific, technical, clinical, and management talent. We have in the past, and may in the future, have difficulty in attracting and retaining such talent. Our success in doing so is largely dependent upon various factors, including a highly competitive market, sought-after skills, management changes, competitor recruitment, and maintaining an attractive workplace culture. Macroeconomic shifts such as increased competition for employees and wage inflation, have previously and could in the future affect our talent retention, turnover rates and operational costs. We cannot ensure that we will be able to hire or retain the personnel necessary for our operations or that the departure of any personnel will not have a material impact on our financial condition and results of operations.

We may incur unexpected costs from increases in fuel and raw material prices, which could reduce our earnings and cash flows. Our primary commodity exposures are for fuel, petroleum-based resins and steel. The costs for these commodities, as well as the costs of transportation, construction and services necessary for the production and distribution of our products, continue to increase and be volatile. While we may seek to minimize the impact of price increases through higher prices to customers and various cost-saving measures, our earnings and cash flows could be adversely affected in the event these measures are insufficient to cover our costs.

Because we rely heavily on third-party package-delivery services, a significant disruption in these services or significant increases in prices may disrupt our ability to ship products, increase our costs and lower our profitability. We ship a significant portion of our products to our customers through independent package delivery companies, such as Federal Express in the U.S. and DHL in Europe. We also maintain a small fleet of vehicles dedicated to the delivery of our products and ship our products through other carriers, including national and regional trucking firms, overnight carrier services and the U.S. Postal Service. If one or more of these third-party package-delivery providers were to experience a major work stoppage, preventing our products from being delivered in a timely fashion or causing us to incur additional shipping costs we could not pass on to our customers, our costs could increase and our relationships with certain of our customers could be adversely affected. In addition, if one or more of these third-party package-delivery providers were to increase prices, and we were not able to find comparable alternatives or make adjustments in our delivery network, our profitability could be adversely affected.

Natural disasters, public health crises, political crises, and other catastrophic events or other events outside of our control may disrupt our facilities or the facilities of third parties on which we depend, and could impact customer spending. We have significant operations in California, near major earthquake faults, which make us susceptible to earthquake risk. An earthquake or other natural disaster (including the effects of climate change such as sea level rise, drought, flooding, wildfires and more intense weather events), could disrupt our operations, including the ability to fulfill supply obligations to our customers, or impair our critical systems. Any of these disruptions or other events outside of our control, such as strikes or other labor unrest, could have an adverse effect on our results of operations. In addition, if any of our facilities, including our manufacturing or warehouse facilities, or the facilities of our suppliers, third-party service providers, or customers, is affected by natural disasters, such as earthquakes, tsunamis, power shortages or outages, fires, floods or monsoons, public health crises, such as pandemics and epidemics, political crises, such as terrorism, war, political instability or other conflict, or other events

outside of our control, such as trade protectionism, strikes or other labor unrest, our results of operations could be adversely affected. Moreover, these types of events could negatively impact customer spending in the impacted regions or depending upon the severity, globally, which could also adversely impact our operating results.

Increasing attention to environmental, social and governance matters may impact our business, financial results, stock price or reputation. We face increasing scrutiny from stakeholders related to our environmental, social and governance (ESG) practices and disclosures, including practices and disclosures related to climate change, diversity and inclusion and governance standards. Investor advocacy groups, certain institutional investors, lenders, investment funds and other influential investors are also increasingly focused on ESG practices and disclosures and in recent years have placed increasing importance on the implications and social cost of their investments. In addition, government organizations are enhancing or advancing legal and regulatory requirements specific to ESG matters. The heightened stakeholder focus on ESG issues related to our business requires the continuous monitoring of various and evolving laws, regulations, standards and expectations and the associated reporting requirements. A failure to adequately meet evolving stakeholder expectations may result in noncompliance, the loss of business, reputational impacts, diluted market valuation, an inability to attract customers and an inability to attract and retain top talent. In addition, if legislation or regulations are enacted or promulgated in the U.S. or in any other jurisdiction in which we do business that impose more stringent restrictions and requirements than our current legal or regulatory obligations, we and companies in our supply chain may experience increased compliance burdens and costs to meet the regulatory obligations, which could cause disruption in the sourcing, manufacturing and distribution of our products and adversely affect our business, financial condition or results of operations. In addition, our adoption of certain standards or mandated compliance to certain requirements could necessitate additional investments that could impact our profitability.

#### Legal, Quality and Regulatory Risks

New governmental regulations or changes in existing governmental regulations may reduce demand for our products or increase our expenses. We compete in many markets in which we and our customers must comply with federal, state, local and international regulations, such as environmental, health and safety and food and drug regulations. We develop, configure and market our products to meet customer needs created by those regulations. Any significant change in regulations, such as the Inflation Reduction Act of 2022 (IRA), which contains drug price negotiation provisions, or change in the interpretation of existing regulations, could reduce demand for our products or increase our expenses. For example, we manufacture pharmaceuticals and many of our instruments are marketed to the pharmaceutical industry for use in discovering and developing drugs. Changes in the U.S. Food and Drug Administration's (the FDA) regulation of the drug discovery and development process could have an adverse effect on the demand for these products, and increased FDA regulation of laboratory-developed tests could delay and add to the cost of commercialization of these products, as well as subject us to additional regulatory controls.

We are subject to laws and regulations governing government contracts, and failure to address these laws and regulations or comply with government contracts could harm our business by leading to a reduction in revenues associated with these customers. We have agreements relating to the sale of our products to government entities and, as a result, we are subject to various statutes and regulations that apply to companies doing business with the government. The laws governing government contracts differ from the laws governing private contracts and government contracts may contain pricing terms and conditions that are not applicable to private contracts. We are also subject to investigation for compliance with the regulations governing government contracts. A failure to comply with these regulations could result in suspension of these contracts, criminal, civil and administrative penalties or debarment.

Our pharma services offerings are highly complex, and if we are unable to provide quality and timely offerings to our customers, our business could suffer. Our pharma services offerings are highly exacting and complex, due in part to strict quality and regulatory requirements. Our operating results in this business depend on our ability to execute and, when necessary, improve our quality management strategy and systems, and our ability to effectively train and maintain our employee base with respect to quality management. A failure of our quality control systems could result in problems with facility operations or preparation or provision of products. In each case, such problems could arise for a variety of reasons, including equipment malfunction, failure to follow specific protocols and procedures, problems with raw materials or environmental factors and damage to, or loss of, manufacturing operations. Such problems could affect production of a particular batch or series of batches of products, requiring the destruction of such products or a halt of facility production altogether.

In addition, our failure to meet required quality standards may result in our failure to timely deliver products to our customers, which in turn could damage our reputation for quality and service. Any such failure could, among other things, lead to increased costs, lost revenues, reimbursement to customers for lost drug product, registered intermediates, registered starting materials, and active pharmaceutical ingredients, other customer claims, damage to and possibly termination of existing customer relationships, time and expense spent investigating the cause and, depending on the cause, similar losses with respect to other batches or products. Production problems in our drug and biologic manufacturing operations could be particularly

significant because the cost of raw materials for such manufacturing is often high. If problems in preparation or manufacture of a product or failures to meet required quality standards for that product are not discovered before such product is released to the market, we may be subject to adverse regulatory actions, including product recalls, product seizures, injunctions to halt manufacture and distribution, restrictions on our operations, civil sanctions, including monetary sanctions, and criminal actions. In addition, such problems or failures could subject us to litigation claims, including claims from our customers for reimbursement for the cost of lost or damaged active pharmaceutical ingredients, the cost of which could be significant.

We are subject to product and other liability risks for which we may not have adequate insurance coverage. We may be named as a defendant in product liability or errors and omissions lawsuits, which may allege that products or services we have provided have resulted or could result in an unsafe condition, property damage or injury to end users or financial loss for consumers. Additionally, products currently or previously sold by our environmental and process instruments and radiation measurement and security instruments businesses include fixed and portable instruments used for chemical, radiation and trace explosives detection. These products are used in airports, embassies, cargo facilities, border crossings and other high-threat facilities for the detection and prevention of terrorist acts. If any of these products were to malfunction, it is possible that explosive or radioactive material could fail to be detected by our product, which could lead to product liability claims. In addition, patients involved in our clinical services trials conducted by our clinical development services business or taking drugs approved on the basis of those trials may also bring personal injury claims against us. There are also many other factors beyond our control that could lead to liability claims, such as the reliability and competence of the customers' operators and the training of such operators.

Any such product liability claims brought against us could be significant and any adverse determination may result in liabilities subject to insurance policy exclusions where insurance would not respond or in excess of our insurance coverage. Although we carry product liability and errors and omissions insurance, we cannot be certain that our current insurance will be sufficient to cover these claims or that it can be maintained on acceptable terms, if at all.

We are required to comply with a wide variety of laws and regulations, and are subject to regulation by various federal, state and foreign agencies. We are subject to various local, state, federal, foreign and transnational laws and regulations, which include the operating and security standards of the FDA, the U.S. Drug Enforcement Agency (the DEA), various state boards of pharmacy, state health departments, the U.S. Department of Health and Human Services (the DHHS), the European Medicines Agency (the EMA), the EU member states and other comparable agencies and, in the future, any changes to such laws and regulations could adversely affect us. In particular, we are subject to laws and regulations concerning current good manufacturing practices and drug safety. Our subsidiaries may be required to register for permits and/or licenses with, and may be required to comply with the laws and regulations of, the DEA, the FDA, the DHHS, foreign agencies including the EMA, and other various state boards of pharmacy, state health departments and/or comparable state agencies as well as certain accrediting bodies depending upon the type of operations and location of product distribution, manufacturing and sale.

The manufacture, distribution and marketing of many of our products and services, including medical devices, and our pharma and clinical development services, are subject to extensive ongoing regulation by the FDA, the DEA, the EMA, and other equivalent local, state, federal and non-U.S. regulatory authorities. In addition, we are subject to inspections by these regulatory authorities. Failure by us or by our customers to comply with the requirements of these regulatory authorities, including without limitation, remediating any inspectional observations to the satisfaction of these regulatory authorities, could result in warning letters, product recalls or seizures, monetary sanctions, injunctions to halt manufacture and distribution, restrictions on our operations, civil or criminal sanctions, or withdrawal of existing or denial of pending approvals, including those relating to products or facilities. In addition, such a failure could expose us to contractual or product liability claims, contractual claims from our customers, including claims for reimbursement for lost or damaged active pharmaceutical ingredients or personal injury, as well as ongoing remediation and increased compliance costs, any or all of which could be significant. We are the sole manufacturer of a number of pharmaceuticals for many of our customers and a negative regulatory event could impact our customers' ability to provide products to their customers.

We are also subject to a variety of federal, state, local and international laws and regulations that govern, among other things, the handling, transportation and manufacture of substances that could be classified as hazardous, and we are required to comply with various import laws and export control and economic sanctions laws, which may affect our transactions with certain customers. In certain circumstances, export control and economic sanctions regulations may prohibit the export of certain products, services and technologies. In other circumstances, we may be required to obtain an export license before exporting the controlled item. Compliance with the various import laws that apply to our businesses can restrict our access to, and increase the cost of obtaining, certain products and at times can interrupt our supply of imported inventory. Any noncompliance by us with applicable laws and regulations or the failure to maintain, renew or obtain necessary permits and licenses could result in criminal, civil and administrative penalties and could have an adverse effect on our results of operations.

Our reputation, ability to do business and financial statements may be impaired by improper conduct by any of our employees, agents, business partners or other third parties. We have internal controls and compliance systems to protect the company against acts committed by employees, agents or businesses that we acquire that would violate U.S. and/or non-U.S. laws, including the laws governing payments to government officials, bribery, fraud, kickbacks and false claims, pricing, sales and marketing practices, conflicts of interest, competition, employment practices and workplace behavior, export and import compliance, money laundering and data privacy, but these controls and systems may not be sufficient to prevent every such wrongful act. In particular, the U.S. Foreign Corrupt Practices Act, the U.K. Bribery Act 2010 and similar anti-bribery laws in other jurisdictions generally prohibit companies and their intermediaries from making improper payments to government officials for the purpose of obtaining or retaining business, and we operate in many parts of the world that have experienced governmental corruption to some degree. Any such improper actions or allegations of such acts could damage our reputation and subject us to civil or criminal investigations in the U.S. and in other jurisdictions and related shareholder lawsuits, could lead to substantial civil and criminal, monetary and nonmonetary penalties and could cause us to incur significant legal and investigatory fees. In addition, the government may seek to hold us liable for violations committed by companies which we acquire. We also rely on our suppliers to adhere to our supplier standards of conduct, and material violations of such standards of conduct could occur that could have a material effect on our business, reputation and financial statements. In addition, any allegations of issues resulting from the misuse of our products could, even if untrue, adversely affect our reputation and our customers' willingness to purchase products from us. Any such allegations could cause us to lose customers and divert our resources from other tasks, which could materially and adversely affect our business and operating results.

Our inability to protect our intellectual property could have a material adverse effect on our business. In addition, third parties may claim that we infringe their intellectual property, and we could suffer significant litigation or licensing expense as a result. We place considerable emphasis on obtaining patent and trade secret protection for significant new technologies, products and processes because of the length of time and expense associated with bringing new products through the development process and into the marketplace. Our success depends in part on our ability to develop patentable products and obtain, defend and enforce patent protection for our products both in the U.S. and in other countries. We own numerous U.S. and foreign patents, and we intend to file additional applications, as appropriate, for patents covering our products. Patents may not be issued for any pending or future patent applications owned by or licensed to us, and the claims allowed under any issued patents may not be sufficiently broad to protect our technology. Any issued patents owned by or licensed to us may be challenged, invalidated or circumvented, and the rights under these patents may not provide us with competitive advantages. In addition, competitors may design around our technology or develop competing technologies. Intellectual property rights may also be unavailable or limited in some foreign countries, which could make it easier for competitors to capture increased market position. We could incur substantial costs to defend ourselves in suits brought against us or in suits in which we may assert our patent rights against others. An unfavorable outcome of any such litigation could materially adversely affect our business and results of operations.

We also rely on trade secrets and proprietary know-how with which we seek to protect our products, in part, by confidentiality agreements with our collaborators, employees and consultants. These agreements may not adequately protect our trade secrets and other proprietary rights. These agreements may be breached and we may not have adequate remedies for any breach. In addition, our trade secrets may otherwise become known or be independently developed by our competitors.

We also depend in part on our trademarks and the strength of our proprietary brands, which we consider important to our business. If we are unable to protect or preserve the value of our intellectual property rights for any reason, including our inability to successfully defend against counterfeit, knock offs, grey-market, infringing or otherwise unauthorized products, our brand and reputation could be damaged, and our business may be harmed.

Third parties may assert claims against us to the effect that we are infringing on their intellectual property rights. In the event that a claim relating to intellectual property is asserted against us, or third parties not affiliated with us hold pending or issued patents that relate to our products or technology, we may seek licenses to such intellectual property or challenge those patents. However, we may be unable to obtain these licenses on commercially reasonable terms, if at all, and our challenge of the patents may be unsuccessful. Our failure to obtain the necessary licenses or other rights could prevent the sale, manufacture, or distribution of our products and, therefore, could have a material adverse effect on our business, financial condition and results of operations.

#### Risks Relating to Financial Profile

**Fluctuations in our effective tax rate may adversely affect our results of operations and cash flows.** As a global company, we are subject to taxation in numerous countries, states and other jurisdictions. In preparing our financial statements, we record the amount of tax that is payable in each of the countries, states and other jurisdictions in which we operate. Our future effective tax rate, however, may be lower or higher than experienced in the past due to numerous factors, including a change in the mix of our profitability from country to country, changes in accounting for income taxes, the results of examinations and audits of

our tax filings and recently enacted and future changes in tax laws in jurisdictions in which we operate. Any of these factors could cause us to experience an effective tax rate significantly different from previous periods or our current expectations, which could have an adverse effect on our business, results of operations and cash flows.

In December 2021, the Organization for Economic Cooperation and Development ("OECD") published a proposal for the establishment of a global minimum tax rate of 15% (the "Pillar Two rule"). The OECD has recommended that the Pillar Two rule become effective for fiscal years beginning after January 1, 2024. To date, member states are in various stages of implementation and the OECD continues to refine technical guidance. We are closely monitoring developments of the Pillar Two rule and are currently evaluating the potential impacts in each of the countries in which we operate; however, we currently do not expect the Pillar Two rule to have a material impact on our effective tax rate.

Our existing and future indebtedness may restrict our investment opportunities or limit our activities and negatively impact our credit ratings. As of December 31, 2023, we had approximately \$34.92 billion in outstanding indebtedness. In addition, we have availability to borrow under a revolving credit facility that provides for up to \$5.00 billion of unsecured multi-currency revolving credit (the Facility). We may also obtain additional long-term debt and lines of credit to meet future financing needs, which would have the effect of increasing our total leverage.

Our leverage could have negative consequences, including increasing our vulnerability to adverse economic and industry conditions, limiting our ability to obtain additional financing and limiting our ability to acquire new products and technologies through strategic acquisitions.

Our ability to make scheduled payments, refinance our obligations or obtain additional financing will depend on our future operating performance and on economic, financial, competitive and other factors beyond our control. Our business may not generate sufficient cash flow to meet our obligations. If we are unable to service our debt, refinance our existing debt or obtain additional financing, we may be forced to delay strategic acquisitions, capital expenditures or research and development expenditures.

Additionally, the agreements governing our debt require that we maintain a financial ratio, and contain affirmative and negative covenants that restrict our activities by, among other limitations, limiting our ability to incur additional indebtedness, merge or consolidate with other entities and create liens. The covenants in the Facility include a Consolidated Net Interest Coverage Ratio (Consolidated EBITDA to Consolidated Net Interest Expense), as such terms are defined in the Facility. Specifically, the company has agreed that, so long as any lender has any commitment under the Facility, any letter of credit is outstanding under the Facility, or any loan or other obligation is outstanding under the Facility, it will maintain a minimum Consolidated Net Interest Coverage Ratio of 3.5:1.0 as of the last day of any fiscal quarter.

Our ability to comply with these financial restrictions and covenants is dependent on our future performance, which is subject to prevailing economic conditions and other factors, including factors that are beyond our control such as the impact of foreign exchange rates and interest rates. Our failure to comply with any of these restrictions or covenants may result in an event of default under the applicable debt instrument, which could permit acceleration of the debt under that instrument and require us to prepay that debt before its scheduled due date. Also, an acceleration of the debt under certain of our debt instruments would trigger an event of default under other of our debt instruments.

## Item 1B. Unresolved Staff Comments

None.

#### Item 1C. Cybersecurity

#### Cybersecurity Risk Management and Strategy

As is the case for most large global companies, we are regularly subject to cyberattacks and other cybersecurity incidents and, therefore, we incorporate cybersecurity into our overall risk management process. Our commitment to cybersecurity emphasizes using a risk-based, "defense in depth" approach to assess, educate, block, identify, respond to and recover from cybersecurity threats. Recognizing that no single technology, process or control can effectively prevent or mitigate all risks, we employ a strategy of technologies, processes and controls, all working independently but as part of a cohesive strategy to manage or reduce risk.

Our cybersecurity program assists in the management of risks associated with the confidentiality, integrity and availability of data and systems within the company environment to effectively support our business objectives and customer expectations. The program provides guidance to business stakeholders on cybersecurity risks as input into their risk management processes that balance cybersecurity risk with other important risks that may include strategic, regulatory, economic and financial considerations.

We seek to routinely refine our cybersecurity approach to adapt to changes in the threat landscape and manage emerging security risks. In order to evaluate risks from cybersecurity threats associated with the company's use of certain third-party technology providers, we have incorporated a risk-based assessment into the corporate information technology (IT) procurement process designed to assess the security risk of certain third parties providing new technology solutions to our environment.

We believe cybersecurity is the responsibility of every employee, and regularly educate and share best practices with our employees to raise awareness of cybersecurity threats through a security awareness training program, including regular exercises, periodic cyber-event simulations and annual attestation to our Technology Acceptable Use Policy.

We do not reasonably believe there are currently any cybersecurity incidents that have materially affected or are reasonably likely to materially affect the company or its business strategy, results of operations or financial condition. For more information on the risks related to our IT systems, see "A significant disruption in, or breach in security of, our IT systems or violation of data privacy laws could adversely affect our business or customers that use our products" under the heading "Risk Factors" in Part I, Item 1A.

#### **Cybersecurity Governance and Oversight**

The Board of Directors has delegated the oversight of cybersecurity risks to the Audit Committee. Our cybersecurity program is led by the company's senior vice president, chief information officer, along with our vice president, chief information security officer. Management provides an operational update to the Audit Committee each quarter. In addition, the Audit Committee and our full Board of Directors receive an annual overview of the cybersecurity program, cybersecurity threat landscape, investments, and opportunities to enhance the company's systems and security of products and operations.

The company's corporate IT security team leads the company-wide cybersecurity strategy and advocates to protect the company systems, its employees and customers against cybersecurity risks. Through annual internal and external audits, we maintain an ISO/IEC 27001:2013 certification for the management of our cybersecurity program consisting of the following areas:

- · cybersecurity program management and governance including risk management;
- cybersecurity operations including security operation centers;
- product security;
- · security investigations;
- · cybersecurity architecture and engineering; and
- security awareness and training.

Our senior vice president, chief information officer, vice president, chief information security officer (CISO), and vice president, chief product security officer have each served in various roles in IT and information security for over 20 years. These individuals' knowledge and experience along with the culture and talent of the corporate IT security team organization are instrumental in developing and executing our cybersecurity strategies. The CISO meets with senior leadership to review and discuss the cybersecurity program, including emerging cybersecurity risks, threats and industry trends.

Cybersecurity is integrated into the risk management process for the company through various corporate mechanisms, including quarterly business reviews, annual budget planning, and targeted risk-based engagements.

## Item 2. Properties

The company owns and leases office, engineering, laboratory, production and warehouse space throughout the world.

#### Item 3. Legal Proceedings

There are various lawsuits and claims against the company involving product liability, intellectual property, employment and commercial issues. See Note 12 to our Consolidated Financial Statements – "Commitments and Contingencies".

## Item 4. Mine Safety Disclosures

Not applicable.

#### PART II

## Item 5. Market for the Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Market Price of Common Stock

Our common stock is traded on the New York Stock Exchange under the symbol TMO.

Holders of Common Stock

As of February 3, 2024, the company had 2,337 holders of record of its common stock. This does not include holdings in street or nominee names.

Issuer Purchases of Equity Securities

There was no share repurchase activity for the company's fourth quarter of 2023. On November 14, 2023, the Board of Directors announced that it replaced the existing authorization to repurchase the company's common stock, of which \$1.00 billion was remaining, with a new authorization to repurchase up to \$4.00 billion of the company's common stock. Early in the first quarter of 2024, the company repurchased \$3.00 billion (5.5 million shares) of the company's common stock. At February 22, 2024, \$1.00 billion was available for future repurchases of the company's common stock under this authorization.

#### Item 6. Reserved

Not applicable.

## Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

Reference is made throughout this Management's Discussion and Analysis of Financial Condition and Results of Operations to Notes to the <u>Consolidated Financial Statements</u>, which begin on page 29 of this report. Management's Discussion and Analysis of Financial Condition and Results of Operations for 2021 is included in Item 7 of the company's 2022 <u>Annual Report on Form 10-K</u> filed with the Securities and Exchange Commission.

The company refers to various amounts or measures not prepared in accordance with generally accepted accounting principles (non-GAAP measures). These non-GAAP measures are further described and reconciled to their most directly comparable amount or measure under the section "Non-GAAP Measures" later in this "Management's Discussion and Analysis of Financial Condition and Results of Operations."

#### Overview

Thermo Fisher Scientific Inc. enables customers to make the world healthier, cleaner and safer by helping them accelerate life sciences research, solve complex analytical challenges, increase laboratory productivity, and improve patient health through diagnostics and the development and manufacture of life-changing therapies. Markets served include pharmaceutical and biotech, academic and government, industrial and applied, as well as healthcare and diagnostics. The company's operations fall into four segments (Note 4): Life Sciences Solutions, Analytical Instruments, Specialty Diagnostics and Laboratory Products and Biopharma Services.

## **Consolidated Results**

(Dollars in millions except per share amounts)	2023	2022	Change
Revenues	\$ 42,857	\$ 44,915	(5) %
GAAP operating income	\$ 6,859	\$ 8,393	(18) %
GAAP operating income margin	16.0 %	18.7 %	(2.7) pt
Adjusted operating income (non-GAAP measure)	\$ 9,810	\$ 10,985	(11) %
Adjusted operating income margin (non-GAAP measure)	22.9 %	24.5 %	(1.6) pt
GAAP diluted earnings per share attributable to Thermo Fisher Scientific Inc.	\$ 15.45	\$ 17.63	(12) %
Adjusted earnings per share (non-GAAP measure)	\$ 21.55	\$ 23.24	(7) %

#### Organic Revenue Growth

Revenue growth	(5)%
Impact of acquisitions	1 %
Impact of currency translation	0 %
Organic revenue growth* (non-GAAP measure)	(5)%

\* Results may not sum due to rounding

Since 2020, the Life Sciences Solutions and Specialty Diagnostics segments as well as the laboratory products business have supported COVID-19 diagnostic testing, scaling and evolving their molecular diagnostics solutions and plastic consumables businesses to respond to the COVID-19 pandemic. The biosciences and bioproduction businesses have expanded their capacity to meet the needs of pharma and biotech customers as they have expanded their own production volumes to meet global vaccine manufacturing requirements. Additionally, our pharma services business has provided our pharma and biotech customers with the services they needed to develop and produce vaccines and therapies globally. Since the company's acquisition of PPD in December 2021, the clinical research business has continued to play a leading role in supporting the clinical trials for COVID-19 vaccines and therapies. These positive impacts continued at much lower levels in 2023 as customer testing as well as therapy and vaccine demand declined. Sales of products related to COVID-19 testing were \$0.33 billion and \$3.11 billion in 2023 and 2022, respectively.

During 2023, growth from pharma and biotech customers slightly declined. Over the past few years, the company has played a meaningful role in the production of COVID-19 vaccines and therapies. In 2023, reduced demand for our products and services that support COVID-19 vaccines and therapies was partially offset through strong commercial execution as a result of our trusted partner status with customers in this market. We saw broad based strength across the academic and government market as we saw the benefits of our accelerated investments into high impact innovation with great customer adoption and strong demand globally. The industrial and applied market was strong, driven by the relevance of our analytical instrument technologies serving our semiconductor and materials science customers. The diagnostics and healthcare market declined due to decreased demand for COVID-19 testing products. During 2023, sales growth in all major regions declined due to decreased demand for COVID-19 related products, as well as a challenging macroeconomic environment and low economic activity in China. Contributions to organic revenue during 2023 from the Analytical Instruments and Laboratory Products and Biopharma Services segments were more than offset by declines in the Life Sciences Solutions and Specialty Diagnostics segments.

The company continues to execute its proven growth strategy which consists of three pillars:

- · High-impact innovation,
- Our trusted partner status with customers, and
- Our unparalleled commercial engine.

GAAP operating income margin and adjusted operating income margin decreased in 2023 due primarily to lower COVID-19 related revenue. This was partially offset by strong productivity improvements and strong pricing realization to address higher inflation. GAAP operating income margin in 2023 was also impacted by restructuring and other charges incurred for headcount reductions and facility consolidations in an effort to streamline operations and limit the impact of expected lower revenue (Note 16). We estimate that restructuring actions resulting in charges of approximately \$0.2 billion in 2023 will realize annual cost savings of approximately \$0.5 billion, primarily due to reduced employee expenses.

The company's references to strategic growth investments generally refer to targeted spending for enhancing commercial capabilities, including expansion of geographic sales reach and e-commerce platforms, marketing initiatives, expanded service and operational infrastructure, research and development projects and other expenditures to enhance the customer experience, as well as incentive compensation and recognition for employees. The company's references throughout this discussion to productivity improvements generally refer to improved cost efficiencies from its Practical Process Improvement (PPI) business system including reduced costs resulting from implementing continuous improvement methodologies, global sourcing initiatives, a lower cost structure following restructuring actions including headcount reductions and consolidation of facilities, and low cost region manufacturing.

#### Notable Recent Acquisitions

On January 3, 2023, the company acquired, within the Specialty Diagnostics segment, The Binding Site Group, a U.K.-based provider of specialty diagnostic assays and instruments to improve the diagnosis and management of blood cancers and immune system disorders. The acquisition expands the segment's portfolio with the addition of pioneering innovation in diagnostics and monitoring for multiple myeloma.

On August 14, 2023, the company acquired, within the Laboratory Products and Biopharma Services segment, CorEvitas, LLC, a U.S.-based provider of regulatory-grade, real-world evidence for approved medical treatments and therapies. The acquisition expands the segment's portfolio with the addition of highly complementary real-world evidence solutions to enhance decision-making as well as the time and cost of drug development.

#### **Segment Results**

The company's management evaluates segment operating performance using operating income before certain charges/credits as defined in Note 4. Accordingly, the following segment data are reported on this basis.

(Dollars in millions)	2023	2022
Revenues		
Life Sciences Solutions	\$ 9,977	\$ 13,532
Analytical Instruments	7,263	6,624
Specialty Diagnostics	4,405	4,763
Laboratory Products and Biopharma Services	23,041	22,511
Eliminations	(1,829)	(2,515)
Consolidated revenues	\$ 42,857	\$ 44,915

#### Life Sciences Solutions

(Dollars in millions)	2023	2022	Total Change	Curre Transla		Acquisitions/ Divestitures	Organic* (non- GAAP measure)
Revenues	\$ 9,977	\$ 13,532	(26) %	0	%	0 %	(26) %
Segment income	3,420	5,582	(39) %				
Segment income margin	34.3 %	41.2 %	(6.9) pt				

The decrease in organic revenues in 2023 was primarily due to moderation in COVID-19 related revenue. The decrease in segment income margin resulted primarily from significantly lower COVID-19 related revenue and unfavorable volume pull-through, partially offset by exceptionally strong productivity improvements and favorable price realization.

#### Analytical Instruments

(Dollars in millions)	2023	2022	Total Change	Currency Translation	Acquisitions/ Divestitures	Organic* (non- GAAP measure)
Revenues	\$ 7,263	\$ 6,624	10 %	(1) %	0 %	10 %
Segment income	1,908	1,507	27 %			
Segment income margin	26.3 %	22.8 %	3.5 pt			

The increase in organic revenues in 2023 was due to increased demand across all the segment's businesses, with particular strength in the electron microscopy and chromatography and mass spectrometry businesses. The increase in segment income margin resulted primarily from strong productivity, strong pricing realization to address higher inflation and strong volume pull-through, offset in part by the effects of currency translation and strategic growth investments.

## Specialty Diagnostics

(Dollars in millions)			2023		Total Change	Currency Translation	Acquisitions/ Divestitures	Organic* (non- GAAP measure)	
Revenues	\$	4,405	\$	4,763	(8) %	0 %	5 %	(13) %	
Segment income		1,124		1,024	10 %				
Segment income margin		25.5 %		21.5 %	4.0 pt				

The decrease in organic revenues in 2023 was due to decreased demand, primarily driven by products addressing diagnosis of COVID-19, partially offset by underlying growth in the immunodiagnostics, microbiology, and transplant diagnostics businesses. The increase in segment income margin was due to favorable business mix, strong pricing realization to address higher inflation, and strong productivity improvements, partially offset by the impact of lower COVID-19 testing volume.

#### Laboratory Products and Biopharma Services

(Dollars in millions)	2023		2022	l otal Change	Translation	Acquisitions/ Divestitures	Organic* (non- GAAP measure)
Revenues	\$ 23,041	\$	22,511	2 %	0 %	0 %	2 %
Segment income	3,358		2,872	17 %			
Segment income margin	14.6 %		12.8 %	1.8 pt			

The increase in organic revenues in 2023 was primarily due to higher sales in the clinical research and pharma services businesses. The increase in segment income margin was primarily due to very strong productivity improvements and strong pricing realization to address higher inflation.

\* Results may not sum due to rounding

#### Non-operating Items

(Dollars in millions)	2023	2022
Net interest expense	\$ 496	\$ 454
GAAP other income/(expense)	(65)	(104)
Adjusted other income/(expense) (non-GAAP measure)	(15)	13
GAAP tax rate	4.5 %	9.0 %
Adjusted tax rate (non-GAAP measure)	10.0 %	13.0 %
Weighted average diluted shares	388	394

Net interest expense (interest expense less interest income) increased due primarily to the increase in debt for general corporate purposes and the company's capital deployment initiatives, which included financing stock buybacks, paying dividends and acquiring The Binding Site Group and CorEvitas, LLC (Note 2). These increases were partially offset by higher cash and cash equivalents balances as well as higher interest rates on these balances when compared to 2022. See additional discussion under the caption "Liquidity and Capital Resources" below. In 2023 and 2022 the company's net interest expense was reduced by approximately \$116 million and \$16 million, respectively, as a result of its interest rate swap and cross-currency interest rate swap arrangements (Note 14).

GAAP other income/(expense) and adjusted other income/(expense) includes currency transaction gains/losses on non-operating monetary assets and liabilities, and net periodic pension benefit cost/income, excluding the service cost component. GAAP other income/(expense) in 2023 also includes \$45 million of net losses on investments. GAAP other income/(expense) in 2022 also includes \$160 million of net losses on investments and \$26 million of losses on the early extinguishment of debt (Note 10), partially offset by \$67 million of net gains on derivative instruments to address certain foreign currency risks.

The GAAP and adjusted tax rates in 2023 were impacted by changes in valuation allowances, including a \$183 million release in a jurisdiction where the deferred tax assets are now expected to be realized, and, to a lesser extent, by a decrease in pre-tax earnings compared to 2022. The company's GAAP and adjusted tax rates in 2023 were also impacted by tax planning initiatives, including a tax benefit of \$127 million for U.S. tax credits and the revaluation of net operating loss carryforwards due to higher tax rates as a result of its tax return resubmissions, a tax benefit of \$91 million, net of related tax expenses, from a foreign exchange loss on an intercompany debt refinancing transaction, and \$233 million of tax benefits resulting from intra-entity transactions. The company's GAAP and adjusted tax rates in 2022 were impacted by releases of valuation allowances of \$189 million in jurisdictions where the deferred tax assets are now expected to be realized. The company's 2022 GAAP tax rate was also impacted by a net benefit of \$208 million resulting from tax audit settlements (Note 8). The effective tax rates in both 2023 and 2022 were also affected by relatively significant earnings in lower tax jurisdictions. Due primarily to the non-deductibility of intangible asset amortization for tax purposes, the company's cash payments for income taxes were higher than its income tax expense for financial reporting purposes. See additional discussion under the caption "Liquidity and Capital Resources" below.

The company expects its GAAP effective tax rate in 2024 will be between 4% and 6% based on currently forecasted rates of profitability in the countries in which the company conducts business and expected generation of foreign tax credits. The effective tax rate can vary significantly from period to period as a result of discrete income tax factors and events. The company expects its adjusted tax rate will be approximately 10.5% in 2024.

The company has operations and a taxable presence in approximately 70 countries outside the U.S. Some of these countries have lower tax rates than the U.S. The company's ability to obtain a benefit from lower tax rates outside the U.S. is dependent on its relative levels of income in countries outside the U.S. and on the statutory tax rates in those countries. Based on the

dispersion of the company's non-U.S. income tax provision among many countries, the company believes that a change in the statutory tax rate in any individual country is not likely to materially affect the company's income tax provision or net income, aside from any resulting one-time adjustment to the company's deferred tax balances to reflect a new rate.

Weighted average diluted shares decreased in 2023 compared to 2022 due to share repurchases, net of option dilution.

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

The company's proven growth strategy has enabled it to generate free cash flow as well as access the capital markets. The company deploys its capital primarily via mergers and acquisitions and secondarily via share buybacks and dividends.

	December 31,	December 31,
(In millions)	 2023	2022
Cash and cash equivalents	\$ 8,077	\$ 8,524
Total debt	34,917	34,488

Approximately half of the company's cash balances and cash flows from operations are from outside the U.S. The company uses its non-U.S. cash for needs outside of the U.S. including acquisitions, capacity expansion, and repayment of third-party foreign debt by foreign subsidiaries. In addition, the company also transfers cash to the U.S. using non-taxable intercompany transactions, including loans and returns of capital, as well as dividends where the related U.S. dividend received deduction or foreign tax credit equals any tax cost arising from the dividends. As a result of using such means of transferring cash to the U.S., the company does not expect any material adverse liquidity effects from its significant non-U.S. cash balances for the foreseeable future.

The company believes that its existing cash and cash equivalents and its future cash flow from operations together with available borrowing capacity under its revolving credit agreement will be sufficient to meet the cash requirements of its existing businesses for the foreseeable future, including at least the next 24 months.

As of December 31, 2023, the company's short-term debt totaled \$3.61 billion. The company has a revolving credit facility with a bank group that provides up to \$5.00 billion of unsecured multi-currency revolving credit (Note 10). If the company borrows under this facility, it intends to leave undrawn an amount equivalent to outstanding commercial paper to provide a source of funds in the event that commercial paper markets are not available. As of December 31, 2023, no borrowings were outstanding under the company's revolving credit facility, although available capacity was reduced by immaterial outstanding letters of credit.

(In millions)	2023	2022
Net cash provided by operating activities	\$ 8,406	\$ 9,154
Net cash used in investing activities	(5,142)	(2,159)
Net cash used in financing activities	(3,622)	(2,810)
Free cash flow (non-GAAP measure)	7,014	6,935

#### Operating Activities

During 2023, cash provided by income was offset in part by investments in working capital. A decrease in inventories provided cash of \$0.60 billion. A decrease in accounts payable used cash of \$0.50 billion, and changes in other assets and other liabilities used cash of \$0.80 billion primarily due to the timing of payments for compensation and income taxes. Cash payments for income taxes were \$1.48 billion during 2023.

During 2022, cash provided by income was offset in part by investments in working capital. Increases in accounts receivable and inventories used cash of \$0.43 billion and \$0.83 billion, respectively, primarily to support growth in sales. An increase in accounts payable provided cash of \$0.65 billion. Cash payments for income taxes were \$1.23 billion during 2022.

The company is contingently liable with respect to certain legal proceedings and related matters. An unfavorable outcome that differs materially from current accrual estimates, if any, for one or more of the matters described under the heading "Product Liability, Workers Compensation and Other Personal Injury Matters" in Note 12 could have a material adverse effect on the company's financial position as well as its results of operations and cash flows.

#### Investing Activities

During 2023, acquisitions of The Binding Site Group and CorEvitas, LLC used cash of \$2.70 billion and \$0.91 billion, respectively. The company's investing activities also included purchases of \$1.48 billion of property, plant and equipment for capacity and capability investments.

During 2022 the company's investing activities were principally for the purchase of property, plant and equipment for capacity and capability investments.

The company expects that for all of 2024, expenditures for property, plant and equipment, net of disposals, will be between \$1.3 billion and \$1.5 billion.

#### Financing Activities

During 2023, issuance of senior notes provided \$5.94 billion of cash. Repayment of senior notes and net commercial paper activity used cash of \$5.78 billion and \$0.32 billion, respectively. The company's financing activities also included the repurchase of \$3.00 billion of the company's common stock (5.2 million shares) and the payment of \$0.52 billion in cash dividends. On November 14, 2023, the Board of Directors announced that it replaced the existing authorization to repurchase the company's common stock, of which \$1.00 billion was remaining, with a new authorization to repurchase up to \$4.00 billion of the company's common stock.

Early in the first quarter of 2024, the company repurchased \$3.00 billion (5.5 million shares) of the company's common stock. At February 22, 2024, \$1.00 billion was available for future repurchases of the company's common stock under this authorization.

During 2022, issuance of senior notes provided \$3.19 billion of cash. Repayment of senior notes and net commercial paper activity used cash of \$0.38 billion and \$2.16 billion, respectively. The company's financing activities also included the repurchase of \$3.00 billion of the company's common stock (5.3 million shares) and the payment of \$0.46 billion in cash dividends.

In addition to the obligations on the balance sheet at December 31, 2023, which include, but are not limited to pension obligations (Note 7), unrecognized tax benefits (Note 8), debt (Note 10), operating leases (Note 11), and contingent consideration (Note 14), the company has also entered into an agreement to acquire Olink (Note 2). The company also has unconditional purchase obligations in the ordinary course of business that include agreements to purchase goods, services or fixed assets, pay royalties, and fund capital commitments pursuant to investments held by the company (Note 12).

#### **Non-GAAP Measures**

In addition to the financial measures prepared in accordance with generally accepted accounting principles (GAAP), we use certain non-GAAP financial measures such as organic revenue growth, which is reported revenue growth, excluding the impacts of revenues from acquired/divested businesses and the effects of currency translation. We report organic revenue growth because Thermo Fisher management believes that in order to understand the company's short-term and long-term financial trends, investors may wish to consider the impact of acquisitions/divestitures and foreign currency translation on revenues. Thermo Fisher management uses organic revenue growth to forecast and evaluate the operational performance of the company as well as to compare revenues of current periods to prior periods.

We report adjusted operating income, adjusted operating income margin, adjusted other income/(expense), adjusted tax rate, and adjusted EPS. We believe that the use of these non-GAAP financial measures, in addition to GAAP financial measures, helps investors to gain a better understanding of our core operating results and future prospects, consistent with how management measures and forecasts the company's core operating performance, especially when comparing such results to previous periods, forecasts, and to the performance of our competitors. Such measures are also used by management in their financial and operating decision-making and for compensation purposes. To calculate these measures we exclude, as applicable:

- Certain acquisition-related costs, including charges for the sale of inventories revalued at the date of acquisition, significant
  transaction/acquisition-related costs, including changes in estimates of contingent acquisition-related consideration, and other
  costs associated with obtaining short-term financing commitments for pending/recent acquisitions. We exclude these costs
  because we do not believe they are indicative of our normal operating costs.
- Costs/income associated with restructuring activities and large-scale abandonments of product lines, such as reducing
  overhead and consolidating facilities. We exclude these costs because we believe that the costs related to restructuring
  activities and large-scale abandonment of product lines are not indicative of our normal operating costs.
- Equity in earnings/losses of unconsolidated entities; impairments of long-lived assets; and certain other gains and losses that are either isolated or cannot be expected to occur again with any predictability, including gains/losses on

investments, the sale of businesses, product lines, and real estate, significant litigation-related matters, curtailments/settlements of pension plans, and the early retirement of debt. We exclude these items because they are outside of our normal operations and/or, in certain cases, are difficult to forecast accurately for future periods.

- The expense associated with the amortization of acquisition-related intangible assets because a significant portion of the purchase price for acquisitions may be allocated to intangible assets that have lives of up to 20 years. Exclusion of the amortization expense allows comparisons of operating results that are consistent over time for both our newly acquired and long-held businesses and with both acquisitive and non-acquisitive peer companies.
- The noncontrolling interest and tax impacts of the above items and the impact of significant tax audits or events (such as
  changes in deferred taxes from enacted tax rate/law changes), the latter of which we exclude because they are outside of our
  normal operations and difficult to forecast accurately for future periods.

We report free cash flow, which is operating cash flow excluding net capital expenditures, to provide a view of the continuing operations' ability to generate cash for use in acquisitions and other investing and financing activities. The company also uses this measure as an indication of the strength of the company. Free cash flow is not a measure of cash available for discretionary expenditures since we have certain non-discretionary obligations such as debt service that are not deducted from the measure.

The non-GAAP financial measures of the company's results of operations and cash flows included in this Form 10-K are not meant to be considered superior to or a substitute for the company's results of operations prepared in accordance with GAAP. Reconciliations of such non-GAAP financial measures to the most directly comparable GAAP financial measures are set forth within the "Consolidated Results" and "Segment Results" sections and below.

Dollars in millions except per share amounts)		2023		2022		
Reconciliation of adjusted operating income and adjusted operating income margin						
GAAP operating income	\$	6,859	16.0% \$	8,393	18.7%	
Cost of revenues adjustments (a)	Ψ	95	0.2%	46	0.1%	
Selling, general and administrative expenses adjustments (b)		59	0.1%	37	0.1%	
Restructuring and other costs (c)		459	1.1%	114	0.3%	
Amortization of acquisition-related intangible assets		2,338	5. <b>5</b> %	2,395	5. <b>3</b> %	
Adjusted operating income (non-GAAP measure)	\$	9,810	22.9% \$	10,985	24.5%	
Reconciliation of adjusted other income/(expense)						
GAAP other income/(expense)	\$	(65)	\$	(104)		
Adjustments (d)		50		117		
Adjusted other income/(expense) (non-GAAP measure)	\$	(15)	\$	13		
Reconciliation of adjusted tax rate						
GAAP tax rate		4. <b>5</b> %		9. <b>%</b>		
Adjustments (e)		5. <b>5</b> %		4.%		
Adjusted tax rate (non-GAAP measure)	_	10.%	=	13.0%		
Reconciliation of adjusted earnings per share						
GAAP diluted earnings per share (EPS) attributable to Thermo Fisher Scientific Inc.	\$	15.45	\$	17.63		
Cost of revenues adjustments (a)		0.24		0.12		
Selling, general and administrative expenses adjustments (b)		0.15		0.09		
Restructuring and other costs (c)		1.18		0.29		
Amortization of acquisition-related intangible assets		6.03		6.07		
Other income/expense adjustments (d)		0.13		0.30		
Provision for income taxes adjustments (e)		(1.66)		(1.70)		
Equity in earnings/losses of unconsolidated entities		0.15		0.44		
Noncontrolling interests adjustments (f)		(0.12)				
Adjusted EPS (non-GAAP measure)	\$	21.55	\$	23.24		

Dollars in millions except per share amounts)	2023	2022
Reconciliation of free cash flow		
GAAP net cash provided by operating activities	\$ 8,406	\$ 9,154
Purchases of property, plant and equipment	(1,479)	(2,243)
Proceeds from sale of property, plant and equipment	87	24
-ree cash flow <i>(non-GAAP measure)</i>	\$ 7,014	\$ 6,935

- (a) Adjusted results in 2023 and in 2022 exclude charges for the sale of inventories revalued at the date of acquisition and charges for inventory write-downs associated with large-scale abandonment of product lines. Adjusted results in 2023 also exclude \$13 million of accelerated depreciation on manufacturing assets to be abandoned due to facility consolidations.
- (b) Adjusted results in 2023 and 2022 exclude certain third-party expenses, principally transaction/integration costs related to recent acquisitions, charges/credits for changes in estimates of contingent acquisition consideration, and charges associated with product liability litigation.
- (c) Adjusted results in 2023 and 2022 exclude restructuring and other costs consisting principally of severance, impairments of long-lived assets, charges for environmental-related matters, abandoned facility and other expenses of headcount reductions and real estate consolidations. Adjusted results in 2023 also exclude \$26 million of contract termination costs associated with facility closures, \$19 million of net charges for pre-acquisition litigation and other matters, and \$11 million of gains on the sale of real estate. Adjusted results in 2022 also exclude \$14 million of gain on the sale of intellectual property.
- (d) Adjusted results exclude net gains/losses on investments. Adjusted results in 2022 also exclude \$67 million of net gains on derivative instruments to address certain foreign currency risks and \$26 million of losses on the early extinguishment of debt.
- (e) Adjusted results in 2023 and 2022 exclude incremental tax impacts for the reconciling items between GAAP and adjusted net income, incremental tax impacts as a result of tax rate/law changes and the tax impacts from audit settlements (including a \$658 million benefit from an audit settlement in 2022). Adjusted results in 2023 also exclude \$14 million of charges for pre-acquisition matters. Adjusted results in 2022 also exclude a \$423 million charge for the impact of deferred tax realizability assessments as a result of audit settlements.
- (f) Adjusted results exclude the incremental impacts for the reconciling items between GAAP and adjusted net income attributable to noncontrolling interests.

#### **Critical Accounting Policies and Estimates**

The company's discussion and analysis of its financial condition and results of operations is based upon its financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States of America. The preparation of these financial statements requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues and expenses and related disclosure of contingent liabilities. On an on-going basis, management evaluates its estimates, including those related to acquisition-related measurements and income taxes. Management believes the most complex and sensitive judgments, because of their significance to the consolidated financial statements, result primarily from the need to make estimates about the effects of matters that are inherently uncertain. Management bases its estimates on historical experience, current market and economic conditions and other assumptions that management believes are reasonable. The results of these estimates form the basis for judgments about the carrying value of assets and liabilities where the values are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

The company believes the following represent its critical accounting policies and estimates used in the preparation of its financial statements:

## Acquisition-related Measurements

#### **Business Combinations**

The company uses assumptions and estimates in determining the fair value of assets acquired and liabilities assumed in a business combination. The determination of the fair value of intangible assets, which represent a significant portion of the purchase price in many of the company's acquisitions, requires the use of significant judgment with regard to (i) the fair value and (ii) whether such intangibles are amortizable or non-amortizable and, if the former, the period and the method by which the intangible asset will be amortized. The company estimates the fair value of acquisition-related intangible assets principally based on projections of cash flows that will arise from identifiable intangible assets of acquired businesses, which include estimates of customer attrition and technology obsolescence rates. The projected cash flows are discounted to determine the present value of the assets at the dates of acquisition. See Note 2 for additional information about our recent business combinations.

#### Goodwill and Indefinite-lived Intangible Assets

The company evaluates goodwill and indefinite-lived intangible assets for impairment annually and when events occur or circumstances change that would more likely than not reduce the fair value of an asset below its carrying amount. Events or circumstances that might require an interim evaluation include unexpected adverse business conditions, economic factors, unanticipated technological changes or competitive activities, loss of key personnel and acts by governments and courts, among others. Goodwill and indefinite-lived intangible assets totaled \$44.02 billion and \$1.24 billion, respectively, at December 31, 2023 (see Note 1 for additional information). Estimates of discounted future cash flows require assumptions related to revenue and operating income growth rates, discount rates and other factors. For the goodwill impairment tests, the company also considers (i) peer revenues and earnings trading multiples from companies that have operational and financial characteristics that are similar to the respective reporting units and (ii) estimated weighted average costs of capital. Different assumptions from those made in the company's analysis could materially affect projected cash flows and the company's evaluation of goodwill and indefinite-lived intangible assets for impairment.

The company performed the quantitative goodwill impairment test for all of its reporting units and indefinite-lived intangible assets. Determinations of fair value based on projections of discounted cash flows, which decreased from the prior year projections primarily due to higher discount rates, and based on peer revenues and earnings trading multiples, which also decreased from the prior year, were sufficient to conclude that no impairments of goodwill or indefinite-lived intangible assets existed at the end of the tenth fiscal month of 2023, the date of the company's annual impairment testing. There were no interim impairments of goodwill or indefinite-lived intangible assets in 2023. There can be no assurance, however, that adverse events or conditions will not cause the fair values of these assets to decline. Should the fair values of the company's reporting units or indefinite-lived intangible assets decline because of reduced operating performance, market declines, or other indicators of impairment, or as a result of changes in the discount rates, charges for impairment may be necessary.

During its annual 2023 goodwill impairment assessments, the company determined that the excess of fair value over carrying value for one of the clinical research business's reporting units had increased to 4%. Despite this favorable increase, given that the fair value of the reporting unit was not substantially in excess of its carrying value as of the annual 2023 assessment date, relatively small decreases in future cash flows versus anticipated results, decreases in peer trading multiples and/or increases in weighted average costs of capital could result in impairment of goodwill. The reporting unit had \$3.95 billion of goodwill, and an overall carrying value of \$5.54 billion as of December 31, 2023.

#### **Definite-lived Intangible Assets**

Definite-lived intangible assets totaled \$15.44 billion at December 31, 2023 (see Note 1 for additional information). Certain definite-lived intangible assets have largely independent cash flows. The company reviews these definite-lived intangible assets for impairment individually when indication of potential impairment exists, such as a significant reduction in cash flows associated with the assets. Actual cash flows arising from a particular intangible asset could vary from projected cash flows, which could imply different carrying values from those established at the dates of acquisition and which could result in impairment of such asset. Most of the company's definite-lived intangible assets are used in conjunction with other assets, such as property, plant and equipment and operating lease right-of-use assets. In these situations, the company considers the asset groups to be the units of account for impairment testing. The company recorded definite-lived intangible asset impairments of \$0.01 billion and \$0.12 billion in 2023 and 2021, respectively (Note 16).

## Income Taxes

#### **Unrecognized Tax Benefits**

In the ordinary course of business there is inherent uncertainty in quantifying the company's income tax positions. The company assesses income tax positions and records tax benefits for all years subject to examination based upon management's evaluation of the facts, circumstances and information available at the reporting date. For those tax positions where it is more likely than not that a tax benefit will be sustained, the company has recorded the largest amount of tax benefit with a greater than 50 percent likelihood of being realized upon ultimate settlement with a taxing authority that has full knowledge of all relevant information. For those income tax positions where it is not more likely than not that a tax benefit will be sustained, no tax benefit has been recognized in the financial statements. Should tax return positions that the company expects are sustainable not be sustained upon audit, the company could be required to record an incremental tax provision for such taxes. The company's liability for these unrecognized tax benefits totaled \$0.54 billion at December 31, 2023, compared to \$0.57 billion at December 31, 2022, primarily as a result of an audit settlement (Note 8).

The company operates in numerous countries under many legal forms and, as a result, is subject to the jurisdiction of numerous domestic and non-U.S. tax authorities, as well as to tax agreements and treaties among these governments. Determination of taxable income in any jurisdiction requires the company to interpret the related tax laws and regulations and the use of estimates and assumptions regarding significant future events, such as the amount, timing and character of deductions, permissible

revenue recognition methods under the tax law and the sources and character of income and tax credits. Changes in tax laws, regulations, agreements and treaties, currency exchange restrictions or the company's level of operations or profitability in each taxing jurisdiction could have an impact upon the amount of current and deferred tax balances and hence the company's net income.

#### **Valuation Allowances**

The company estimates the degree to which tax assets will result in a benefit, after consideration of all positive and negative evidence, and provides a valuation allowance for tax assets that it believes will more likely than not go unused. In situations in which the company has been able to determine that its deferred tax assets will be realized, that determination generally relies on future reversals of taxable temporary differences and expected future taxable income. If it becomes more likely than not that a tax asset will be used, the company reverses the related valuation allowance. Any such reversals are recorded as a reduction of the company's tax provision. The company's tax valuation allowance totaled \$1.32 billion at both December 31, 2023 and December 31, 2022 (Note 8). Should the company's actual future taxable income by tax jurisdiction vary from estimates, additional allowances or reversals thereof may be necessary.

#### **Recent Accounting Pronouncements**

A description of recently issued accounting standards is included under the heading "Recent Accounting Pronouncements" in Note 1.

#### Item 7A. Quantitative and Qualitative Disclosures About Market Risk

The company is exposed to market risk from changes in interest rates and currency exchange rates, which could affect its future results of operations and financial condition. The company manages its exposure to these risks through its regular operating and financing activities. The company has periodically hedged interest rate risks of fixed-rate instruments with offsetting interest rate swaps. Additionally, the company uses short-term forward and option contracts primarily to hedge certain balance sheet and operational exposures resulting from changes in currency exchange rates. Such exposures result from purchases, sales, cash and intercompany loans that are denominated in currencies other than the functional currencies of the respective operations. The currency-exchange contracts principally hedge transactions denominated in euro, British pounds sterling, Canadian dollars, Singapore dollars, Czech koruna, Hong Kong dollars and Swedish krona. Income and losses arising from these derivative contracts are recognized as offsets to losses and income resulting from the underlying exposure being hedged. The company does not enter into speculative derivative agreements.

#### **Interest Rates**

The company is exposed to changes in interest rates while conducting normal business operations as a result of ongoing investing and financing activities, which affect the company's debt as well as cash and cash equivalents. As of December 31, 2023, the company's debt portfolio was comprised primarily of fixed rate borrowings. The fair market value of the company's fixed interest rate debt is subject to interest rate risk. Generally, the fair market value of fixed interest rate debt will increase as interest rates fall and decrease as interest rates rise. The total estimated fair value of the company's debt at December 31, 2023 was \$32.27 billion (Note 14). Fair values were determined from available market prices using current interest rates and terms to maturity. If interest rates were to decrease by 100 basis points, the fair value of the company's debt at December 31, 2023 would increase by approximately \$2.33 billion. If interest rates were to increase by 100 basis points, the fair value of the company's debt at December 31, 2023 would decrease by approximately \$2.05 billion.

In addition, the fair value of the company's cross-currency interest rate swap arrangements is subject to interest rate risk. If interest rates were to decrease by 100 basis points, the fair value of the company's cross-currency interest rate swaps at December 31, 2023 would decrease by approximately \$0.39 billion. If interest rates were to increase by 100 basis points, the fair value of the company's cross-currency interest rate swaps at December 31, 2023 would increase by approximately \$0.53 billion.

#### **Currency Exchange Rates**

The company views its investments in international subsidiaries with a functional currency other than the U.S. dollar as permanent. The company's investment in international subsidiaries is sensitive to fluctuations in currency exchange rates. The functional currencies of the company's international subsidiaries are principally denominated in British pounds sterling, euro, Swedish krona, Canadian dollars, Norwegian kroner and Danish kroner. The effect of a change in the period ending currency exchange rates on the company's net investment in international subsidiaries is reflected in the "accumulated other comprehensive items" component of shareholders' equity. The company also uses foreign currency-denominated debt to partially hedge its net investments in foreign operations against adverse movements in exchange rates. A 10% depreciation in year-end 2023 functional currencies, relative to the U.S. dollar, would result in a reduction of shareholders' equity of approximately \$1.26 billion.

The fair value of forward currency-exchange contracts is sensitive to changes in currency exchange rates. The fair value of forward currency-exchange contracts is the estimated amount that the company would pay or receive upon termination of the contract, taking into account the change in currency exchange rates. A 10% depreciation in year-end 2023 non-functional currency exchange rates related to the company's contracts would result in an unrealized loss on forward currency-exchange contracts of \$43 million. A 10% appreciation in year-end 2023 non-functional currency exchange rates related to the company's contracts would result in an additional unrealized gain on forward currency-exchange contracts of \$49 million. The unrealized gains or losses on forward currency-exchange contracts resulting from changes in currency exchange rates are expected to approximately offset losses or gains on the exposures being hedged.

Certain of the company's cash and cash equivalents are denominated in currencies other than the functional currency of the depositor and are sensitive to changes in currency exchange rates. A 10% depreciation in the related year-end 2023 non-functional currency exchange rates applied to such cash balances would result in a negative impact of \$13 million on the company's net income.

# Item 8. Financial Statements and Supplementary Data INDEX OF CONSOLIDATED FINANCIAL STATEMENTS

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## Report of Independent Registered Public Accounting Firm

To the Board of Directors and Shareholders of Thermo Fisher Scientific Inc.

#### Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Thermo Fisher Scientific Inc. and its subsidiaries (the "Company") as of December 31, 2023 and 2022, and the related consolidated statements of income, of comprehensive income, of redeemable noncontrolling interest and equity and of cash flows for each of the three years in the period ended December 31, 2023, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2023, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of 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 accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2023, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the COSO.

#### **Basis for Opinions**

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in Management's Annual Report on Internal Control Over Financial Reporting appearing under Item 9A. Our responsibility is to express opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (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 audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated 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 consolidated 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 consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

## 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 (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) 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 (iii) 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

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.

#### Critical Audit Matters

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

#### Income taxes

As described in Note 8 to the consolidated financial statements, the Company's provision for income taxes for the year ended December 31, 2023 was \$284 million. The Company has deferred tax liabilities, net, of \$1,091 million (including a valuation allowance of \$1,317 million) and unrecognized tax benefits of \$540 million as of December 31, 2023. As disclosed by management, the Company operates in numerous countries under many legal forms and, as a result, is subject to the jurisdiction of numerous domestic and non-U.S. tax authorities, as well as to tax agreements and treaties among these governments. Determination of taxable income in any jurisdiction requires management to interpret the related tax laws and regulations and to use estimates and assumptions regarding significant future events, such as the amount, timing and character of deductions, permissible revenue recognition methods under the tax law and the sources and character of income and tax credits. Management assesses income tax positions and records tax benefits for all years subject to examination based upon management's evaluation of the facts, circumstances and information available at the reporting date. For those tax positions where it is more likely than not that a tax benefit will be sustained, management has recorded the largest amount of tax benefit with a greater than 50 percent likelihood of being realized upon ultimate settlement with a taxing authority that has full knowledge of all relevant information. For those income tax positions where it is not more likely than not that a tax benefit will be sustained, no tax benefit has been recognized in the financial statements. Management estimates the degree to which tax assets will result in a benefit, after consideration of all positive and negative evidence, and provides a valuation allowance for tax assets that it believes will more likely than not go unused. In situations in which management has been able to determine that the Company's deferred tax assets will be realized, that determination generally relies on future reversals of taxable temporary differences and expected future taxable income. If it becomes more likely than not that a tax asset will be used, management reverses the related valuation allowance.

The principal considerations for our determination that performing procedures relating to income taxes is a critical audit matter are (i) the significant judgment by management when interpreting the numerous and complex tax laws and regulations as it relates to determining the provision for income taxes, deferred tax assets and liabilities, including the valuation allowance, and liabilities for unrecognized tax benefits, (ii) a high degree of auditor judgment, subjectivity, and effort in performing procedures and evaluating audit evidence related to the provision for income taxes, deferred tax assets and liabilities, including the valuation allowance, and liabilities for unrecognized tax benefits, and (iii) the audit effort involved the use of professionals with specialized skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the provision for income taxes, deferred tax assets and liabilities, including the valuation allowance, and liabilities for unrecognized tax benefits. These procedures also included, among others (i) testing the accuracy of the provision for income taxes, including the rate reconciliation and permanent and temporary differences, (ii) evaluating whether the data utilized in the calculations of the provision for income taxes, deferred tax assets and liabilities, and liabilities for unrecognized tax benefits were appropriate and consistent with evidence obtained in other areas of the audit, (iii) evaluating management's assessment of the realizability of deferred tax assets on a jurisdictional basis, (iv) evaluating the identification of liabilities for unrecognized tax benefits and the reasonableness of the more likely than not

determination in consideration of court decisions, legislative actions, statutes of limitations, and developments in tax examinations by jurisdiction, (v) testing the calculation of the liability for unrecognized tax benefits by jurisdiction, including estimates of the amount of income tax benefit expected to be sustained, and (vi) evaluating the adequacy of the Company's disclosures. Professionals with specialized skill and knowledge were used to assist in evaluating the reasonableness of management's judgments and estimates related to the application of foreign and domestic tax laws and regulations.

/s/ PricewaterhouseCoopers LLP Boston, Massachusetts February 22, 2024

We have served as the Company's auditor since 2002.

## CONSOLIDATED BALANCE SHEETS

	D	ecember 31,	De	cember 31,
(In millions except share and per share amounts)	_	2023		2022
Assets				
Current assets:		0.077		0.504
Cash and cash equivalents	\$	8,077	\$	8,524
Accounts receivable, less allowances of \$193 and \$189		8,221		8,115
Inventories		5,088		5,634
Contract assets, net		1,443		1,312
Other current assets		1,760		1,644
Total current assets		24,589		25,229
Property, plant and equipment, net		9,448		9,280
Acquisition-related intangible assets, net		16,670		17,442
Other assets		3,999		4,007
Goodwill	-	44,020		41,196
Total assets	\$	98,726	\$	97,154
Liabilities, redeemable noncontrolling interest and equity				
Current liabilities:				
Short-term obligations and current maturities of long-term obligations	\$	3,609	\$	5,579
Accounts payable		2,872		3,381
Accrued payroll and employee benefits		1,596		2,095
Contract liabilities		2,689		2,601
Other accrued expenses		3,246		3,354
Total current liabilities		14,012		17,010
Deferred income taxes		1,922		2,849
Other long-term liabilities		4,642		4,238
Long-term obligations		31,308		28,909
Commitments and contingencies (Note 12)				
Redeemable noncontrolling interest		118		116
Equity:				
Thermo Fisher Scientific Inc. shareholders' equity:				
Preferred stock, \$100 par value, 50,000 shares authorized; none issued				
Common stock, \$1 par value, 1,200,000,000 shares authorized; 442,188,634 and 440,668,112 shares issued		442		441
Capital in excess of par value		17,286		16,743
Retained earnings		47,364		41,910
Treasury stock at cost, 55,541,290 and 50,157,275 shares		(15,133)		(12,017)
Accumulated other comprehensive income/(loss)		(3,224)		(3,099)
Total Thermo Fisher Scientific Inc. shareholders' equity	_	46,735		43,978
Noncontrolling interests		(11)		43,976
Total equity		46,724		44,032
	\$	98,726	\$	97,154
Total liabilities, redeemable noncontrolling interest and equity	Ψ	90,720	Ф	37,134

The accompanying notes are an integral part of these consolidated financial statements.

## CONSOLIDATED STATEMENTS OF INCOME

CONSOLIDATED STATE	LIVILIA 13 V	or integral				
	Year Ended					
	December 31,		December 31,		De	cember 31,
(In millions except per share amounts)		2023		2022		2021
Revenues						
Product revenues	\$	25,243	\$	28,548	\$	30,361
Service revenues		17,614		16,367		8,850
Total revenues		42,857		44,915		39,211
Costs and operating expenses:						
Cost of product revenues		13,168		14,247		13,594
Cost of service revenues		12,589		11,697		5,979
Selling, general and administrative expenses		8,445		8,993		8,007
Research and development expenses		1,337		1,471		1,406
Restructuring and other costs		459		114		197
Total costs and operating expenses		35,998	•	36,522		29,183
Operating income		6,859		8,393		10,028
Interest income		879		272		43
Interest expense		(1,375)		(726)		(536)
Other income/(expense)		(65)		(104)		(694)
Income before income taxes		6,298		7,835		8,841
Provision for income taxes		(284)		(703)		(1,109)
Equity in earnings/(losses) of unconsolidated entities		(59)		(172)		(4)
Net income	'	5,955		6,960		7,728
Less: net (losses) income attributable to noncontrolling interests and		(10)				
redeemable noncontrolling interest		(40)		10		3
Net income attributable to Thermo Fisher Scientific Inc.	\$	5,995	\$	6,950	\$	7,725
Familiana nanahan attaihatahla ta Thamas Fishan Calantifis Inc						
Earnings per share attributable to Thermo Fisher Scientific Inc.	<b>.</b>	15.50	<b>.</b>	1775	<b>+</b>	10.62
Basic	\$	15.52	\$	17.75	\$	19.62
Diluted	\$	15.45	\$	17.63	\$	19.46
Weighted average shares						
Weighted average shares Basic		386		392		394
- 11010						
Diluted		388		394		397

The accompanying notes are an integral part of these consolidated financial statements.

## CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

December 31, 2023   2022   2021		Year Ended							
Net income Net income Net income Other comprehensive income/(loss): Currency translation adjustment: Currency translation adjustment (net of tax provision (benefit) of \$(134), \$173 and \$231) Unrealized gains and losses on hedging instruments: Reclassification adjustment for losses included in net income (net of tax benefit of \$2, \$1 and \$17) Pension and other postretirement benefit liability adjustments: Pension and other postretirement benefit liability adjustments arising during the period (net of tax provision (benefit) of \$(22), \$9 and \$11) Amortization of net loss and prior service benefit included in net periodic pension cost (net of tax benefit of \$1, \$3 and \$6) Total other comprehensive income/(loss)  Comprehensive income Less: comprehensive income/(loss) attributable to noncontrolling interests and redeemable noncontrolling interest  (48) 3 3 2		December 31,		December 31,		Dec	cember 31,		
Net income \$ 5,955 \$ 6,960 \$ 7,728  Other comprehensive income/(loss):  Currency translation adjustment:  Currency translation adjustment (net of tax provision (benefit) of \$(134), \$173 and \$231)  Unrealized gains and losses on hedging instruments:  Reclassification adjustment for losses included in net income (net of tax benefit of \$2, \$1 and \$17)  Pension and other postretirement benefit liability adjustments:  Pension and other postretirement benefit liability adjustments arising during the period (net of tax provision (benefit) of \$(22), \$9 and \$11)  Amortization of net loss and prior service benefit included in net periodic pension cost (net of tax benefit of \$1, \$3 and \$6)  Total other comprehensive income/(loss)  Comprehensive income  Less: comprehensive income/(loss) attributable to noncontrolling interests and redeemable noncontrolling interest  (48)  3	(In millions)	2023		2023			2022		2021
Other comprehensive income/(loss):  Currency translation adjustment:  Currency translation adjustment (net of tax provision (benefit) of \$(134), \$173 and \$231) (69) (822) 373  Unrealized gains and losses on hedging instruments:  Reclassification adjustment for losses included in net income (net of tax benefit of \$2, \$1 and \$17) 5 2 56  Pension and other postretirement benefit liability adjustments:  Pension and other postretirement benefit liability adjustments arising during the period (net of tax provision (benefit) of \$(22), \$9 and \$11) (69) 38 36  Amortization of net loss and prior service benefit included in net periodic pension cost (net of tax benefit of \$1, \$3 and \$6) — 5 13  Total other comprehensive income/(loss) (133) (777) 478  Comprehensive income  Less: comprehensive income/(loss) attributable to noncontrolling interests and redeemable noncontrolling interest (48) 3 2	Comprehensive income								
Currency translation adjustment:  Currency translation adjustment (net of tax provision (benefit) of \$(134), \$173 and \$231)	Net income	\$	5,955	\$	6,960	\$	7,728		
Currency translation adjustment (net of tax provision (benefit) of \$(134), \$173 and \$231)  Unrealized gains and losses on hedging instruments:  Reclassification adjustment for losses included in net income (net of tax benefit of \$2, \$1 and \$17)  Pension and other postretirement benefit liability adjustments:  Pension and other postretirement benefit liability adjustments arising during the period (net of tax provision (benefit) of \$(22), \$9 and \$11)  Amortization of net loss and prior service benefit included in net periodic pension cost (net of tax benefit of \$1, \$3 and \$6)  Total other comprehensive income/(loss)  Comprehensive income  Less: comprehensive income/(loss) attributable to noncontrolling interests and redeemable noncontrolling interest  (48)  373  (69)  (822)  373  (69)  5  2  5  6  6  7  6  6  7  7  7  7  7  7  7  7	Other comprehensive income/(loss):								
\$\( \frac{134}{134} \), \\$173 and \\$231 \\ Unrealized gains and losses on hedging instruments:  Reclassification adjustment for losses included in net income (net of tax benefit of \\$2, \\$1 and \\$17 \)  Pension and other postretirement benefit liability adjustments:  Pension and other postretirement benefit liability adjustments arising during the period (net of tax provision (benefit) of \\$(22), \\$9 and \\$11 \\  Amortization of net loss and prior service benefit included in net periodic pension cost (net of tax benefit of \\$1, \\$3 and \\$6 \\  Total other comprehensive income/(loss) \\  Comprehensive income  \[ \begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Currency translation adjustment:								
Reclassification adjustment for losses included in net income (net of tax benefit of \$2, \$1 and \$17)  Pension and other postretirement benefit liability adjustments:  Pension and other postretirement benefit liability adjustments arising during the period (net of tax provision (benefit) of \$(22), \$9 and \$11)  Amortization of net loss and prior service benefit included in net periodic pension cost (net of tax benefit of \$1, \$3 and \$6)  Total other comprehensive income/(loss)  Comprehensive income  Less: comprehensive income/(loss) attributable to noncontrolling interests and redeemable noncontrolling interest  (48)  3  2  5  2  5  6  6  7  7  8  7  8  7  7  8  7  8  7  7  8  8			(69)		(822)		373		
tax benefit of \$2, \$1 and \$17)  Pension and other postretirement benefit liability adjustments:  Pension and other postretirement benefit liability adjustments arising during the period (net of tax provision (benefit) of \$(22), \$9 and \$11)  Amortization of net loss and prior service benefit included in net periodic pension cost (net of tax benefit of \$1, \$3 and \$6)  Total other comprehensive income/(loss)  Comprehensive income  Ess: comprehensive income/(loss) attributable to noncontrolling interests and redeemable noncontrolling interest  (48)  3 2  5 6  6 7  6 9  7 8  6 9  7 9  7 13  7 13  7 1478	Unrealized gains and losses on hedging instruments:								
Pension and other postretirement benefit liability adjustments arising during the period (net of tax provision (benefit) of \$(22), \$9 and \$11)    Amortization of net loss and prior service benefit included in net periodic pension cost (net of tax benefit of \$1, \$3 and \$6)    Total other comprehensive income/(loss)    Comprehensive income			5		2		56		
during the period (net of tax provision (benefit) of \$(22), \$9 and \$11)  Amortization of net loss and prior service benefit included in net periodic pension cost (net of tax benefit of \$1, \$3 and \$6)  Total other comprehensive income/(loss)  Comprehensive income  Less: comprehensive income/(loss) attributable to noncontrolling interests and redeemable noncontrolling interest  (48)  38  36  4777)  478  699  38  36  4777)  478  698  478  699  598  699  699  699  699  699  69	Pension and other postretirement benefit liability adjustments:								
periodic pension cost (net of tax benefit of \$1, \$3 and \$6) — 5 13  Total other comprehensive income/(loss) (133) (777) 478  Comprehensive income 5,822 6,183 8,206  Less: comprehensive income/(loss) attributable to noncontrolling interests and redeemable noncontrolling interest (48) 3 2	during the period (net of tax provision (benefit) of \$(22), \$9 and		(69)		38		36		
Comprehensive income     5,822     6,183     8,206       Less: comprehensive income/(loss) attributable to noncontrolling interests and redeemable noncontrolling interest     (48)     3     2			_		5		13		
Less: comprehensive income/(loss) attributable to noncontrolling interests and redeemable noncontrolling interest (48) 3 2	Total other comprehensive income/(loss)		(133)		(777)		478		
and redeemable noncontrolling interest (48) 3 2	Comprehensive income		5,822		6,183		8,206		
Comprehensive income attributable to Thermo Fisher Scientific Inc. \$ 5,870 \$ 6,180 \$ 8,204			(48)		3		2		
	Comprehensive income attributable to Thermo Fisher Scientific Inc.	\$	5,870	\$	6,180	\$	8,204		

The accompanying notes are an integral part of these consolidated financial statements.

# **CONSOLIDATED STATEMENTS OF CASH FLOWS**

			Yea	ar Ended		
	Dece	ember 31,	De	cember 31,	Dec	ember 31,
(In millions)		2023		2022		2021
Operating activities		_				
Net income	\$	5,955	\$	6,960	\$	7,728
Adjustments to reconcile net income to net cash provided by operating activities:	·	·	·	·	·	·
Depreciation of property, plant and equipment		1,068		986		831
Amortization of acquisition-related intangible assets		2,338		2,395		1,761
Change in deferred income taxes		(1,300)		(995)		(647)
Stock-based compensation		278		307		230
Loss on early extinguishment of debt		_		26		767
Other non-cash expenses		604		524		190
Changes in assets and liabilities, excluding the effects of acquisitions:						
Accounts receivable		(43)		(430)		(204)
Inventories		598		(825)		(1,065)
Contract assets/liabilities		252		(354)		221
Accounts payable		(500)		648		479
Contributions to retirement plans		(42)		(41)		(34)
Other		(802)		(47)		(945)
Net cash provided by operating activities		8,406		9,154		9,312
Investing activities						
Acquisitions, net of cash acquired		(3,660)		(39)		(19,395)
Purchase of property, plant and equipment		(1,479)		(2,243)		(2,523)
Proceeds from sale of property, plant and equipment		87		24		20
Proceeds from cross-currency interest rate swap interest settlements		70		15		8
Other investing activities, net		(160)		84		(42)
Net cash used in investing activities		(5,142)		(2,159)		(21,932)
Financing activities						
Net proceeds from issuance of debt		5.942		3.193		18,137
Repayment of debt		(5,782)		(375)		(11,738)
Proceeds from issuance of commercial paper		1.620		1.526		2.512
Repayments of commercial paper		(1,935)		(3,690)		
Purchases of company common stock		(3,000)		(3,000)		(2,000)
Dividends paid		(523)		(455)		(395)
Other financing activities, net		56		(9)		65
Net cash (used in) provided by financing activities		(3,622)		(2,810)		6,581
Exchange rate effect on cash		(82)		(139)		194
(Decrease) increase in cash, cash equivalents and restricted cash		(440)		4,046		(5,845)
·		. ,				
Cash, cash equivalents and restricted cash at beginning of year		8,537		4,491		10,336
Cash, cash equivalents and restricted cash at end of year	\$	8,097	\$	8,537	\$	4,491

The accompanying notes are an integral part of these consolidated financial statements.

# CONSOLIDATED STATEMENTS OF REDEEMABLE NONCONTROLLING INTEREST AND EQUITY

(In millions)	Redeemable Noncontrolling Interest		on Stock Amount	Capital in Excess of Par Value	Retained Earnings	Treas	ury Stock Amount	Accumulated Other Comprehensive Items	Total Thermo Fisher Scientific Inc. Shareholders' Equity	Noncontrolling Interests	Total Equity
Balance at December 31, 2020		437	\$ 437	\$ 15,579	\$ 28,116	40	\$ (6,818)			\$ 10	\$ 34,517
Issuance of shares	<b>.</b> —	2		324	\$ 20,110			\$ (2,007)	222	<b>ў</b> 10	222
under stock plans Stock-based compensation	_	_	2	230	_	1 _	(104)	_	230	_	230
Purchases of company common stock	_	_	_	_	_	4	(2,000)	_	(2,000)	_	(2,000)
Dividends declared (\$1.04 per share)	_	_	_	_	(410)	_	_	_	(410)	_	(410)
Recognition upon acquisition	122	_	_	_	_	_	_	_	_	_	_
Net income/(loss)	1	_	_	_	7,725	_	_	_	7,725	2	7,727
Other comprehensive income/(loss)	(1)	_	_	_	_	_	_	478	478	_	478
Contributions from (distributions to) noncontrolling interests		_			_			_	_	50	50
Other	_	_	_	41	_	_	_	_	41	_	41
Balance at December 31, 2021	122	439	439	16,174	35,431	45	(8,922)	(2,329)	40,793	62	40,855
Issuance of shares under stock plans	_	2	2	262	_	_	(95)	_	169	_	169
Stock-based compensation	_	_	_	307	_	_	_	_	307	_	307
Purchases of company common stock	_	_	_	_	_	5	(3,000)	_	(3,000)	_	(3,000)
Dividends declared (\$1.20 per share)	_	_	_	_	(471)	_	_	_	(471)	_	(471)
Net income/(loss)	15	_	_	_	6,950	_	_	_	6,950	(5)	6,945
Other comprehensive income/(loss)	(6)	_	_	_	_	_	_	(770)	(770)	(1)	(771)
Contributions from (distributions to) noncontrolling interests	(15)	_	_	_	_	_	_	_	_	(2)	(2)
Balance at December 31, 2022	116	441	441	16,743	41,910	50	(12,017)	(3,099)	43,978	54	44,032
Issuance of shares	110							(3,099)		54	
under stock plans Stock-based	_	1	1	265	_	1	(88)	_	178	_	178
compensation Purchases of	_	_	_	278	_	_	_	_	278	_	278
company common stock	_	_	_	_	_	5	(3,000)	_	(3,000)	_	(3,000)
Dividends declared (\$1.40 per share)	_	_	_	_	(541)	_	_	_	(541)	_	(541)
Net income/(loss)	19	_	_	_	5,995		_	_	5,995	(59)	5,936
Other comprehensive income/(loss)	(3)	_	_	_	_	_	_	(125)	(125)	(5)	(130)
Contributions from (distributions to) noncontrolling interests	(14)	_	_	_	_	_	_	_	_	(1)	(1)
Excise tax from stock repurchases	_	_	_	_	_	_	(28)	_	(28)	_	(28)
Balance at December 31, 2023	\$ 118	442	\$ 442	\$ 17,286	\$ 47,364	56	\$(15,133)	\$ (3,224)	\$ 46,735	\$ (11)	\$ 46,724

The accompanying notes are an integral part of these consolidated financial statements.

# Note 1. Nature of Operations and Summary of Significant Accounting Policies

## Nature of Operations

Thermo Fisher Scientific Inc. (the company or Thermo Fisher) enables customers to make the world healthier, cleaner and safer by helping them accelerate life sciences research, solve complex analytical challenges, increase laboratory productivity, and improve patient health through diagnostics and the development and manufacture of life-changing therapies. Markets served include pharmaceutical and biotech, academic and government, industrial and applied, as well as healthcare and diagnostics.

#### Principles of Consolidation

The accompanying financial statements include the accounts of the company and its wholly and majority-owned subsidiaries. All material intercompany accounts and transactions have been eliminated. The company accounts for investments in businesses using the equity method when it has the ability to exercise significant influence but not control (generally between 20% and 50% ownership), is not the primary beneficiary and has not elected the fair value option. At December 31, 2023 and 2022, the company had such investments with carrying amounts of \$489 million and \$369 million, respectively. The company has elected the fair value option of accounting for certain of its investments with readily determinable fair values that would otherwise be accounted for under the equity method. At December 31, 2023 and 2022, the fair value of such investments was \$5 million and \$7 million, respectively.

## Redeemable Noncontrolling Interest

The company owns 60% of its consolidated subsidiary PPD-SNBL K.K. The 40% ownership interest held by a third party is classified as a redeemable noncontrolling interest on the consolidated balance sheet due to certain put options under which the third party may require the company to purchase the remaining ownership interest at a premium upon the occurrence of certain events.

#### Presentation

Certain reclassifications of prior year amounts have been made to conform to the current year presentation.

#### Revenue Recognition

Consumables revenues consist of single-use products and are recognized at a point in time following the transfer of control of such products to the customer, which generally occurs upon shipment. Instruments revenues typically consist of longer-lived assets that, for the substantial majority of sales, are recognized at a point in time in a manner similar to consumables. Service revenues (primarily clinical research, pharmaceutical, and instrument and enterprise services) are recognized over time as customers receive and consume the benefits of such services. For revenues recognized over time, the company generally uses costs accumulated relative to total estimated costs to measure progress as this method approximates satisfaction of the performance obligation. For contracts that contain multiple performance obligations, the company allocates the consideration to which it expects to be entitled (i.e., the transaction price) to each performance obligation based on relative standalone selling prices and recognizes the related revenues when or as control of each individual performance obligation is transferred to customers. The company exercises judgment in determining the timing of revenue by analyzing the point in time or the period over which the customer has the ability to direct the use of and obtain substantially all of the remaining benefits of the asset. The company immediately expenses contract costs that would otherwise be capitalized and amortized over a period of less than one year.

Changes to the scope of services contracts generally also include changes in the transaction price. Typically, these contract modifications are not distinct from existing services provided under the contract, and result in cumulative adjustments to revenue on the modification date. However, some modifications are distinct from existing services provided under the contract and recognized prospectively.

Payments from customers for most instruments and consumables are typically due in a fixed number of days after shipment or delivery of the product. Service arrangements commonly call for payments in advance of performing the work (e.g., extended service contracts), upon completion of the service (e.g., pharmaceutical services) or a mix of both. Some arrangements include variable amounts of consideration that arise from discounts, rebates, and other programs and practices. In such arrangements, the company estimates the amount by which to reduce the stated contract amount to reflect the transaction price. The company records reimbursement for third-party pass-through and out-of-pocket costs as revenues and the related expenses as costs of revenues.

### Contract-related Balances

Accounts receivable include unconditional rights to consideration from customers, which generally represent billings that do not bear interest. The company maintains allowances for doubtful accounts for estimates of expected losses resulting from the inability of its customers to pay amounts due. The allowance for doubtful accounts is the company's best estimate of the amount of probable credit losses in existing accounts receivable. The company determines the allowance based on history of similarly aged receivables, the creditworthiness of the customer, reasons for delinquency, current economic conditions, expectations associated with future events and circumstances where reasonable and supportable forecasts are available and any other information that is relevant to the judgment. Receivables from academic and government customers as well as large, well-capitalized commercial customers have historically experienced less collectability risk. Account balances are charged off against the allowance when the company believes it is probable the receivable will not be recovered. The company does not have any off-balance-sheet credit exposure related to customers.

Contract assets include revenues recognized in advance of billings where the company's right to bill includes something other than the passage of time. Such amounts are recorded net of estimated losses resulting from the inability to invoice customers, which is primarily due to risk associated with the company's performance. Contract assets are classified as current or noncurrent based on the amount of time expected to lapse until the company's right to consideration becomes unconditional.

Contract liabilities include billings in excess of revenues recognized, such as those resulting from customer advances and deposits and unearned revenues on service contracts. Contract liabilities are classified as current or noncurrent based on the periods over which remaining performance obligations are expected to be transferred to customers. Contract assets and liabilities are presented on a net basis in the consolidated balance sheet if they arise from different performance obligations in the same contract.

### Warranty Obligations

The company provides for the estimated cost of standard product warranties, primarily from historical information, in cost of product revenues at the time product revenues are recognized. The liability for warranties is included in other accrued expenses in the accompanying balance sheet. Extended warranty agreements are considered service contracts, which are discussed above. Costs of service contracts are recognized as incurred.

#### Leases

Operating leases that have commenced are included in other assets, other accrued expenses and other long-term liabilities in the consolidated balance sheet. Finance leases that have commenced are included in property, plant and equipment, net, current maturities of long-term obligations and long-term obligations in the consolidated balance sheet. Classification of lease liabilities as either current or noncurrent is based on the expected timing of payments due under the company's obligations.

Right-of-use (ROU) assets represent the company's right to use an underlying asset for the lease term and lease liabilities represent the company's obligation to make lease payments arising from the lease. Lease ROU assets and liabilities are recognized at the lease commencement date based on the present value of lease payments over the lease term. Leases with an initial term of 12 months or less are not recorded on the consolidated balance sheet. The company recognizes operating lease expense on a straight-line basis over the lease term. Finance lease expense includes depreciation, which is recognized on a straight-line basis over the expected life of the leased asset, and an immaterial amount of interest expense.

Because most of the company's leases do not provide an implicit interest rate, the company estimates incremental borrowing rates based on the information available at the commencement date in determining the present value of lease payments. The company uses the implicit rate when readily determinable. Lease terms include the effect of options to extend or terminate the lease when it is reasonably certain that the company will exercise that option.

As a lessee, the company accounts for the lease and non-lease components as a single lease component.

# Research and Development

The company conducts research and development activities to increase its depth of capabilities in technologies, software and services. Research and development costs include employee compensation and benefits, consultants, facilities related costs, material costs, depreciation and travel. Research and development costs are expensed as incurred.

### Restructurina Costs

Accounting for the timing and amount of termination benefits provided by the company to employees is determined based on whether: (a) the company has a substantive plan to provide such benefits, (b) the company has a written employment contract with the affected employees that includes a provision for such benefits, (c) the termination benefits are due to the occurrence of

an event specified in an existing plan or agreement, or (d) the termination benefits are a one-time benefit. In certain circumstances, employee termination benefits may meet more than one of the characteristics listed above and therefore, may have individual elements that are subject to different accounting models.

From time to time when executing a restructuring or exit plan, the company also incurs costs other than termination benefits, such as lease termination costs, that are not associated with or will not be incurred to provide economic benefits to the company. These include costs that represent amounts under contractual obligations that exist prior to the restructuring plan communication date and will either continue after the restructuring plan is completed with no economic benefit or result in a penalty to cancel a contractual obligation. Such costs are recognized when incurred, which generally occurs at the contract termination or over the period from when a plan to abandon a leased facility is approved through the cease-use date but charges may continue over the remainder of the original contractual period.

### Income Taxes

The company recognizes deferred income taxes based on the expected future tax consequences of differences between the financial statement basis and the tax basis of assets and liabilities, calculated using enacted tax rates in effect for the year in which the differences are expected to be reflected in the tax return. A valuation allowance is provided for tax assets that will more likely than not go unused.

The financial statements reflect expected future tax consequences of uncertain tax positions that the company has taken or expects to take on a tax return presuming the taxing authorities' full knowledge of the positions and all relevant facts, but without discounting for the time value of money.

## Earnings per Share

Basic earnings per share has been computed by dividing net income attributable to Thermo Fisher Scientific Inc. by the weighted average number of shares outstanding during the year. Except where the result would be antidilutive to net income attributable to Thermo Fisher Scientific Inc., diluted earnings per share has been computed using the treasury stock method for outstanding stock options and restricted units.

## Cash and Cash Equivalents

Cash equivalents consists principally of money market funds, commercial paper and other marketable securities purchased with an original maturity of three months or less. These investments are carried at cost, which approximates market value.

#### Inventories

Inventories are valued at the lower of cost or net realizable value, cost being determined by the first-in, first-out (FIFO) method. As discussed below, prior to the third quarter of 2021 certain of the company's businesses utilized the last-in, first-out (LIFO) method. The company periodically reviews quantities of inventories on hand and compares these amounts to the expected use of each product or product line. In addition, the company has certain inventory that is subject to fluctuating market pricing. The company records a charge to cost of sales for the amount required to reduce the carrying value of inventory to net realizable value. Costs associated with the procurement of inventories, such as inbound freight charges, purchasing and receiving costs, and internal transfer costs, are included in cost of revenues in the accompanying statement of income. The components of inventories are as follows:

	December 31,	December 31,
(In millions)	 2023	2022
Raw materials	\$ 2,057	\$ 2,405
Work in process	705	660
Finished goods	2,326	2,569
Inventories	\$ 5,088	\$ 5,634

Prior to the third quarter of 2021, certain of the company's businesses utilized the LIFO method of accounting for inventories. During the third quarter of 2021, these businesses, which comprised approximately 5% of consolidated inventories, changed from the LIFO method to the FIFO method. The company believes this change is preferable as it will provide a consistent, uniform costing method for all inventories across the company, better reflect the current value of inventories, and improve comparability with peers. Prior financial statements have not been retrospectively adjusted due to immateriality. The cumulative pre-tax effect of this change in accounting principle of \$33 million was recorded as an increase to inventories and a decrease to cost of product revenues in the third quarter of 2021. This change was recorded in the Laboratory Products and Biopharma

Services (\$20 million) and Specialty Diagnostics (\$13 million) segments. Reductions to cost of revenues as a result of the liquidation of LIFO inventories were nominal during the first half of 2021.

### Property, Plant and Equipment

Property, plant and equipment are recorded at cost. The costs of additions and improvements are capitalized, while maintenance and repairs are charged to expense as incurred. The company generally provides for depreciation and amortization using the straight-line method over the estimated useful lives of the property as follows: buildings and improvements, 25 to 40 years; machinery and equipment (including software), 3 to 10 years; and leasehold improvements, the shorter of the term of the lease or the life of the assets. When assets are retired or otherwise disposed of, the assets and related accumulated depreciation are eliminated from the accounts and the resulting gain or loss is reflected in the accompanying statement of income. Property, plant and equipment consists of the following:

(In millions)	December 31, 2023	 December 31, 2022
Land	\$ 458	\$ 454
Buildings and improvements	3,593	3,153
Machinery, equipment and leasehold improvements	9,235	7,967
Construction in progress	2,238	2,695
Property, plant and equipment, at cost	15,524	14,269
Less: Accumulated depreciation and amortization	6,076	4,989
Property, plant and equipment, net	\$ 9,448	\$ 9,280

# Acquisition-related Intangible Assets

Acquisition-related intangible assets include the costs of acquired customer relationships, product technology, tradenames, backlog and other specifically identifiable intangible assets, and are being amortized using the straight-line method over their estimated useful lives, which range up to 20 years. The company reviews these intangible assets for impairment when indication of potential impairment exists, such as a significant reduction in cash flows associated with the assets. When impairment indicators exist, the company determines whether the carrying value of its intangible assets exceeds the related undiscounted cash flows. In these situations, the carrying value is written down to fair value.

In addition, the company has tradenames that have indefinite lives and which are not amortized. Intangible assets with indefinite lives are reviewed for impairment annually or whenever events or changes in circumstances indicate they may be impaired. The company may perform an optional qualitative assessment. If the company determines that the fair value of the indefinite-lived intangible asset is more likely than not greater than its carrying amount, no additional testing is necessary. If not, or if the company bypasses the optional qualitative assessment, it writes the carrying value down to the fair value, if applicable.

Acquisition-related intangible assets are as follows:

	Balance at December 31, 2023					Balance at December 31, 2022					
(In millions)	Gross		Accumulated Amortization	_	Net		Gross		Accumulated Amortization		Net
Definite lived:											
Customer relationships	\$ 22,762	\$	(9,410)	\$	13,352	\$	21,792	\$	(8,330)	\$	13,462
Product technology	5,894		(4,591)		1,303		5,882		(4,360)		1,522
Tradenames	1,634		(1,079)		555		1,635		(1,008)		627
Backlog	1,084		(859)		225		1,038		(442)		596
	31,374		(15,939)		15,435		30,347		(14,140)		16,207
Indefinite lived:	 										
Tradenames	1,235		N/A		1,235		1,235		N/A		1,235
Acquisition-related intangible assets	\$ 32,609	\$	(15,939)	\$	16,670	\$	31,582	\$	(14,140)	\$	17,442

The estimated future amortization expense of acquisition-related intangible assets with definite lives as of December 31, 2023 is as follows:

(In millions)	
2024	\$ 1,931
2025	1,630
2026	1,460
2027	1,430
2028	1,398
2029 and thereafter	7,586
Estimated future amortization expense of definite-lived intangible assets	\$ 15,435

#### Other Assets

Other assets in the accompanying balance sheet include operating lease right-of-use assets, investments, deferred tax assets, pension assets, insurance recovery receivables related to product liability matters, certain intangible assets and other assets.

At December 31, 2023 and 2022, the company had \$37 million and \$36 million, respectively, of intangible assets not derived from acquisitions, net of accumulated amortization, which are being amortized using the straight-line method over their estimated useful lives, which range up to 20 years.

Equity investments that do not have readily determinable fair values and are not eligible for the net asset value (NAV) practical expedient are measured at cost minus impairment, if any, plus or minus changes resulting from observable price changes in orderly transactions for the identical or similar investments of the same issuer. The company performs qualitative assessments to identify impairments of these investments. At December 31, 2023 and 2022, the company had such investments with carrying amounts of \$12 million and \$55 million, respectively, and investments measured at NAV of \$28 million and \$22 million, respectively, which are included in other assets.

#### Goodwill

The company assesses goodwill for impairment at the reporting unit level annually and whenever events occur or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying amount. Such events or circumstances generally include the occurrence of operating losses or a significant decline in earnings associated with one or more of the company's reporting units. The company is permitted to first assess qualitative factors to determine whether the quantitative goodwill impairment test is necessary. If the qualitative assessment results in a determination that the fair value of a reporting unit is more likely than not less than its carrying amount, the company performs a quantitative goodwill impairment test. The company may bypass the qualitative assessment for the reporting unit in any period and proceed directly to the goodwill impairment test. The company estimates the fair value of its reporting units by using forecasts of discounted future cash flows and peer market multiples. The company would record an impairment charge based on the excess of a reporting unit's carrying amount over its fair value (limited to the amount of goodwill). The company determined that no impairments existed in 2023, 2022 or 2021.

The changes in the carrying amount of goodwill by segment are as follows:

(In millions)	Life Sciences Solutions	Analytical Instruments	Specialty Diagnostics	Products and Biopharma Services	Total
Balance at December 31, 2021	\$ 10,143	\$ 5,043	\$ 3,277	\$ 23,461	\$ 41,924
Acquisitions	_	24	_	_	24
Finalization of purchase price allocations for 2021 acquisitions	9	_	_	168	177
Currency translation	(6)	(102)	(186)	(635)	(929)
Balance at December 31, 2022	 10,146	4,965	3,091	22,994	41,196
Acquisitions	_	31	1,741	627	2,399
Currency translation	5	55	91	274	425
Balance at December 31, 2023	\$ 10,151	\$ 5,051	\$ 4,923	\$ 23,895	\$ 44,020

Laboratory

### Loss Contingencies

Accruals are recorded for various contingencies, including legal proceedings, environmental, workers' compensation, product, general and auto liabilities, self-insurance and other claims that arise in the normal course of business. The accruals are based on management's judgment, historical claims experience, the probability of losses and, where applicable, the consideration of opinions of internal and/or external legal counsel and actuarial estimates. Additionally, the company records receivables from third-party insurers up to the amount of the loss when recovery has been determined to be probable. Certain liabilities acquired in acquisitions have been recorded at readily determinable fair values and, as such, were discounted to present value at the dates of acquisition.

### Currency Translation

All assets and liabilities of the company's subsidiaries operating in non-U.S. dollar currencies are translated at period-end exchange rates. Resulting translation adjustments are reflected in the "accumulated other comprehensive items" component of shareholders' equity. Revenues and expenses are translated at average exchange rates for the period. Currency transaction gains/(losses) are included in the accompanying statement of income and in aggregate were \$(67) million, \$62 million and \$25 million in 2023, 2022 and 2021, respectively.

#### Derivative Contracts

The company is exposed to certain risks relating to its ongoing business operations including changes to interest rates and currency exchange rates. The company uses derivative instruments primarily to manage currency exchange and interest rate risks. The company recognizes derivative instruments as either assets or liabilities and measures those instruments at fair value. If a derivative is a hedge, depending on the nature of the hedge, changes in the fair value of the derivative are either offset against the change in fair value of the hedged item through earnings or recognized in other comprehensive items until the hedged item is recognized in earnings. Derivatives that are not designated as hedges are recorded at fair value through earnings.

The company uses short-term forward and option currency exchange contracts primarily to hedge certain balance sheet and operational exposures resulting from changes in currency exchange rates, predominantly intercompany loans and cash balances that are denominated in currencies other than the functional currencies of the respective operations. The currency-exchange contracts principally hedge transactions denominated in euro, British pounds sterling, Canadian dollars, Singapore dollars, Czech koruna, Hong Kong dollars and Swedish krona. The company does not hold or engage in transactions involving derivative instruments for purposes other than risk management.

Cash flow hedges. For derivative instruments that are designated and qualify as a cash flow hedge, the gain or loss on the derivative is reported as a component of other comprehensive items and reclassified into earnings in the same period or periods during which the hedged transaction affects earnings and is presented in the same income statement line item as the earnings effect of the hedged item.

Fair value hedges. For derivative instruments that are designated and qualify as a fair value hedge, the gain or loss on the derivative, as well as the offsetting loss or gain on the hedged item attributable to the hedged risk, are recognized in earnings.

Net investment hedges. The company uses foreign currency-denominated debt, certain foreign currency-denominated payables, and cross-currency interest rate swaps to partially hedge its net investments in foreign operations against adverse movements in exchange rates. A portion of the company's euro-denominated senior notes, certain foreign currency-denominated payables, and its cross-currency interest rate swaps have been designated as, and are effective as, economic hedges of part of the net investment in a foreign operation. Accordingly, foreign currency transaction gains or losses due to spot rate fluctuations on the euro-denominated debt instruments and certain foreign currency-denominated payables, and contract fair value changes on the cross-currency interest rate swaps, excluding interest accruals, are included in currency translation adjustment within other comprehensive items and shareholders' equity.

# Government Assistance

From time to time, the company receives assistance from various governmental agencies generally in the form of cash or non-income tax credits. These programs help offset the costs of certain research and development activities, facility construction and expansion efforts, or hiring objectives. When the company believes that it is probable that it will meet the conditions tied to the assistance, it offsets the associated expense in the consolidated income statement. Such amounts were not material to the consolidated financial statements as of and for the years ended December 31, 2023 and 2022.

### Use of Estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period.

The company's estimates include, among others, asset reserve requirements as well as the amounts of future cash flows associated with certain assets and businesses that are used in assessing the risk of impairment. Actual results could differ from those estimates.

### Recent Accounting Pronouncements

The following table provides a description of recent accounting pronouncements adopted and those standards not yet adopted with potential for a material impact on the company's financial statements or disclosures.

Standard	Description	Effective date for Thermo Fisher and adoption approach	Impact of adoption or other significant matters
Standards recently adopted			
Accounting Standards Update (ASU) No. 2021-05, Leases (Topic 842): Lessors-Certain Leases with Variable Lease Payments	Amended guidance to require lessors to classify leases as operating leases if they have certain variable lease payment structures and would have selling losses if they were classified as sales-type or direct financing leases.	Third quarter of 2021 using a prospective method	Not material
ASU No. 2021-10, Government Assistance (Topic 832): Disclosures by Business Entities about Government Assistance	New guidance to disclose information about certain types of government assistance they receive, including cash grants and tax credits. Among other things, the new guidance requires expanded disclosure regarding the qualitative and quantitative characteristics of the nature, amount, timing, and significant terms and conditions of transactions with a government arising from a grant or other forms of assistance accounted for under a contribution model.	Fourth quarter of 2022 using a prospective method	Not material
ASU No. 2022-04, Liabilities- Supplier Finance Programs (Subtopic 405-50): Disclosure of Supplier Finance Program Obligations	New guidance to disclose information about supplier finance programs. Among other things, the new guidance requires expanded disclosure about key program terms, payment terms, and amounts outstanding for obligations under supplier finance programs for each period presented.	Some aspects adopted in 2023 using a retrospective method and will adopt other aspects in 2024 using a prospective method	Not material
Standards not yet adopted			
ASU No. 2023-07, Segment Reporting (Topic 280): Improving Reportable Segment Disclosures	Among other things, new guidance to disclose significant segment expenses and other items by reportable segment as well as information about the chief operating decision maker.	2024 annual report and interim periods thereafter using a retrospective method	Will increase disclosures in Note 4
ASU No. 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures	Among other things, new guidance to disclose additional information about the tax rate reconciliation and income taxes paid.	2025 annual report and interim periods thereafter using a prospective or retrospective method	Will increase disclosures in Note 8

# Note 2. Acquisitions

The company's acquisitions have historically been made at prices above the determined fair value of the acquired identifiable net assets, resulting in goodwill, primarily due to expectations of the synergies that will be realized by combining the businesses and the benefits that will be gained from the assembled workforces. These synergies include the elimination of redundant facilities, functions and staffing; use of the company's existing commercial infrastructure to expand sales of the acquired businesses' products and services; and use of the commercial infrastructure of the acquired businesses to cost-effectively expand sales of company products and services.

Acquisitions have been accounted for using the acquisition method of accounting, and the acquired companies' results have been included in the accompanying financial statements from their respective dates of acquisition. Acquisition transaction costs are recorded in selling, general and administrative expenses as incurred.

#### 2023

On January 3, 2023, the company acquired, within the Specialty Diagnostics segment, The Binding Site Group, a U.K.-based provider of specialty diagnostic assays and instruments to improve the diagnosis and management of blood cancers and immune system disorders. The acquisition expands the segment's portfolio with the addition of pioneering innovation in diagnostics and monitoring for multiple myeloma. The goodwill recorded as a result of this business combination is not tax deductible.

On August 14, 2023, the company acquired, within the Laboratory Products and Biopharma Services segment, CorEvitas, LLC, a U.S.-based provider of regulatory-grade, real-world evidence for approved medical treatments and therapies. The acquisition expands the segment's portfolio with the addition of highly complementary real-world evidence solutions to enhance decision-making as well as the time and cost of drug development. The goodwill recorded as a result of this business combination is not tax deductible.

The components of the purchase price and net assets acquired are as follows:

(In millions)	The Bin	ding Site	CorEvitas
Purchase price			
Cash paid	\$	2,412	\$ 730
Debt settled		307	184
Cash acquired		(20)	(4)
	\$	2,699	\$ 910
Net assets acquired			
Definite-lived intangible assets			
Customer relationships	\$	868	\$ 260
Product technology		162	47
Tradenames		42	_
Backlog		_	46
Goodwill		1,741	627
Net tangible assets		174	(2)
Deferred tax assets (liabilities)		(288)	(68)
	\$	2,699	\$ 910

In addition, in 2023, the company acquired, within the Analytical Instruments segment, a U.S.-based developer of Raman-based spectroscopy solutions for in-line measurement.

The weighted-average amortization periods for definite-lived intangible assets acquired in 2023 are 18 years for customer relationships, 14 years for product technology, 15 years for tradenames, and 13 years for backlog. The weighted-average amortization period for definite-lived intangible assets acquired in 2023 is 17 years.

# Proposed Acquisition

On October 17, 2023, the company entered into a purchase agreement to acquire all of the issued and outstanding shares of Olink Holding AB (publ) at a price of \$26.00 per share, or approximately \$3.1 billion. Olink is a leading provider of next-generation proteomics solutions that will expand the company's capabilities in this field. The company has commenced a tender offer to acquire all of the American Depositary Shares and common shares of Olink. The transaction is expected to close by mid-year 2024, subject to the satisfaction of customary closing conditions including receipt of applicable regulatory approvals, and completion of the tender offer. Upon completion, Olink will become part of the Life Sciences Solutions segment. The company intends to finance the purchase price with cash on hand and the net proceeds from issuances of debt.

### 2022

In 2022, the company acquired, within the Analytical Instruments segment, a U.S.-based developer of Fourier-transform infrared gas analysis technologies.

### 2021

On January 15, 2021, the company acquired, within the Laboratory Products and Biopharma Services segment, the Belgium-based European viral vector manufacturing business of Groupe Novasep SAS. The European viral vector manufacturing business provides manufacturing services for vaccines and therapies to biotechnology companies and large biopharma customers. The acquisition expands the segment's capabilities for cell and gene vaccines and therapies. The goodwill recorded as a result of this business combination is not tax deductible.

On February 25, 2021, the company acquired, within the Life Sciences Solutions segment, Mesa Biotech, Inc., a U.S.-based molecular diagnostic company. Mesa Biotech has developed and commercialized a polymerase chain reaction (PCR) based rapid point-of-care testing platform available for detecting infectious diseases including COVID-19. The acquisition enables the company to accelerate the availability of reliable and accurate advanced molecular diagnostics at the point of care. The goodwill recorded as a result of this business combination is not tax deductible.

On September 30, 2021, the company assumed operating responsibility, within the Laboratory Products and Biopharma Services segment, of a new state-of-the-art biologics manufacturing facility in Lengnau, Switzerland from CSL Limited to perform pharma services for CSL with capacity to serve other customers as well. The goodwill recorded as a result of this business combination is not tax deductible.

On December 8, 2021, the company acquired, within the Laboratory Products and Biopharma Services segment, PPD, Inc., a U.S.-based global provider of clinical research services to the pharma and biotech industry. The addition of PPD's clinical research services enhances our offering to biotech and pharma customers by enabling them to accelerate innovation and increase their productivity within the drug development process. The goodwill recorded as a result of this business combination is not tax deductible.

On December 30, 2021, the company acquired, within the Life Sciences Solutions segment, PeproTech, Inc., a U.S.-based developer and manufacturer of recombinant proteins. PeproTech provides bioscience reagents known as recombinant proteins, including cytokines and growth factors. The acquisition expands the segment's bioscience offerings. The goodwill recorded as a result of this business combination is not tax deductible.

In addition, in 2021, the company acquired, within the Life Sciences Solutions segment, cell sorting technology assets, an Ireland-based life sciences distributor and a developer of a digital PCR platform; within the Analytical Instruments segment, a Belgium-based developer of micro-chip based technology for liquid chromatography columns; and within the Specialty Diagnostics segment, a transplant diagnostics information system provider.

The components of the purchase price and net assets acquired for 2021 acquisitions are as follows:

			Ει	ropean Viral Vector			Le	engnau biologics manufacturing	
(In millions)	PPD	PeproTech		Business	ľ	Mesa Biotech		facility	Other
Purchase price									
Cash paid	\$ 17,237	\$ 1,946	\$	848	\$	421	\$	17	\$ 298
Fair value of equity awards exchanged	43	_		_		_		_	_
Fair value of contingent consideration	_	_		_		65		1	117
Cash acquired	(1,244)	(83)		(18)		(14)		_	(12)
	\$ 16,036	\$ 1,863	\$	830	\$	472	\$	18	\$ 403
			_		_		_		
Net assets acquired									
Current assets	\$ 2,477	\$ 58	\$	39	\$	54	\$	_	\$ 12
Property, plant and equipment	527	18		59		2		93	2
Definite-lived intangible assets:									
Customer relationships	6,257	510		302		_		_	2
Product technology	_	282		25		279		_	224
Tradenames	594	_		_		2		_	2
Backlog	1,038	_		_		_		_	_
Goodwill	13,949	1,198		600		237		18	198
Other assets	1,060	11		3		3		364	2
Contract liabilities	(1,539)	_		(59)		_		_	(1)
Deferred tax assets (liabilities)	(1,782)	(192)		(80)		(72)		_	(27)
Finance lease liabilities	(90)	_		(24)		_		(82)	_
Debt assumed	(4,299)	_		_		_		_	_
Other liabilities assumed	(2,034)	(22)		(35)		(33)		(375)	(11)
Redeemable noncontrolling interest	 (122)								_
	\$ 16,036	\$ 1,863	\$	830	\$	472	\$	18	\$ 403

During 2022, we finalized the allocations of the purchase price for the Lengnau biologics manufacturing facility, PPD, Inc. and PeproTech, Inc., largely with respect to definite-lived intangible assets, property, plant and equipment, contract liabilities, equity method investments, asset retirement obligations, defined benefit pension plans, assumed contingent consideration and the related deferred taxes. The adjustments to the income statement recorded during 2022 were not material.

The weighted-average amortization periods for definite-lived intangible assets acquired in 2021 are 17 years for customer relationships, 11 years for product technology, 7 years for tradenames and 3 years for backlog. The weighted average amortization period for all definite-lived intangible assets acquired in 2021 is 14 years.

# **Unaudited Pro Forma Information**

The following unaudited pro forma information provides the effect of the company's 2021 acquisition of PPD as if the acquisition had occurred on January 1, 2020:

	<u>_</u>	Year Ended
		December 31,
(In millions)		2021
Revenues	\$	44,886
Net income attributable to Thermo Fisher Scientific Inc.	\$	7,369

The historical consolidated financial information of the company and PPD has been adjusted in the pro forma information to give effect to pro forma events that are directly attributable to the acquisitions and related financing arrangements and are factually supportable.

To reflect the acquisition of PPD as if it had occurred on January 1, 2020, the unaudited pro forma results include adjustments to reflect, among other things, the incremental intangible asset amortization to be incurred based on the values of each identifiable intangible asset and the interest expense from debt financings obtained to partially fund the cash consideration transferred. Pro forma adjustments were tax effected at the company's historical statutory rates in effect for the respective periods. The unaudited pro forma amounts are not necessarily indicative of the combined results of operations that would have been realized had the acquisitions and related financings occurred on the aforementioned dates nor are they meant to be indicative of any anticipated combined results of operations that the company will experience after the transaction. In addition, the amounts do not include any adjustments for actions that may be taken following the completion of the transaction, such as expected cost savings, operating synergies, or revenue enhancements that may be realized subsequent to the transaction.

Pro forma net income attributable to Thermo Fisher Scientific Inc. for the year ended December 31, 2021, excludes \$12 million of transaction costs, initial restructuring costs, and debt extinguishment costs directly attributable to the PPD acquisition that were included in the determination of net income attributable to Thermo Fisher Scientific Inc. for that period.

The company's results would not have been materially different from its pro forma results had the company's other 2021 acquisitions occurred at the beginning of 2020.

PPD's revenues and losses attributable to Thermo Fisher Scientific Inc. in 2021, subsequent to the acquisition date, were \$78 million and \$(60) million, respectively. The loss includes non-recurring transaction and compensation costs.

#### Note 3. Revenues and Contract-related Balances

Disaggregated Revenues

Revenues by type are as follows:

2023		2022		2021
\$ 17,597	\$	20,624	\$	22,608
7,646		7,924		7,753
17,614		16,367		8,850
\$ 42,857	\$	44,915	\$	39,211
2023	_	2022		2021
 2023		2022		2021
\$ 22,764	\$	24,594	\$	19,659
10,741		10,762		
				11,134
7,873		8,115		11,134 7,218
7,873 1,479		8,115 1,444		•
\$	\$ 17,597 7,646 17,614 \$ 42,857 2023 \$ 22,764	\$ 17,597 \$ 7,646 17,614 \$ 42,857 \$ \$ 22,764 \$	\$ 17,597 \$ 20,624 7,646 7,924 17,614 16,367 \$ 42,857 \$ 44,915 2023 2022 \$ 22,764 \$ 24,594	\$ 17,597 \$ 20,624 \$ 7,646 7,924 17,614 16,367 \$ 42,857 \$ 44,915 \$

Each reportable segment earns revenues from consumables, instruments and services in North America, Europe, Asia-Pacific and other regions. See Note 4 for revenues by reportable segment and other geographic data.

# Remaining Performance Obligations

The aggregate amount of the transaction price allocated to the remaining performance obligations for all open customer contracts as of December 31, 2023 was \$26.92 billion. The company will recognize revenues for these performance obligations as they are satisfied, approximately 53% of which is expected to occur within the next twelve months. Amounts expected to occur thereafter generally relate to contract manufacturing, clinical research and extended warranty service agreements, which typically have durations of three to five years.

#### Contract-related Balances

Noncurrent contract assets and noncurrent contract liabilities are included within other assets and other long-term liabilities in the accompanying balance sheet, respectively. Contract asset and liability balances are as follows:

	December 31,	December 31,
(In millions)	2023	2022
Current contract assets, net	\$ 1,443	\$ 1,312
Noncurrent contract assets, net	4	7
Current contract liabilities	2,689	2,601
Noncurrent contract liabilities	1,499	1,179

Substantially all of the current contract liabilities balance at December 31, 2022 and 2021 was recognized in revenues during 2023 and 2022, respectively. Noncurrent contract liabilities increased during 2023 primarily due to advanced payments from a customer.

# Note 4. Business Segment and Geographical Information

The company's financial performance is reported in four segments. A description of each segment follows.

Life Sciences Solutions: provides an extensive portfolio of reagents, instruments and consumables used in biological and medical research, discovery and production of new drugs and vaccines as well as diagnosis of infection and disease. These products and services are used by customers in pharmaceutical, biotechnology, agricultural, clinical, healthcare, academic, and government markets.

Analytical Instruments: provides a broad offering of instruments and the supporting consumables, software and services that are used for a range of applications in the laboratory and in the field. These products and services are used by customers in pharmaceutical, biotechnology, academic, government, environmental and other research and industrial markets, as well as the clinical laboratory.

Specialty Diagnostics: offers a wide range of diagnostic test kits, reagents, culture media, instruments and associated products to serve customers in healthcare, clinical, pharmaceutical, industrial, and food safety laboratories. Our healthcare products are used to increase the speed and accuracy of diagnoses, which improves patient care in a more cost-efficient manner.

Laboratory Products and Biopharma Services: offers virtually everything needed for the laboratory. Our unique combination of self-manufactured and sourced products and extensive service offering enables our customers to focus on their core activities and helps them to be more innovative, productive and cost-efficient. The segment also includes a comprehensive offering of outsourced services used by the pharmaceutical and biotech industries for drug development, clinical research, clinical trials services and commercial drug manufacturing.

The company's management evaluates segment operating performance based on operating income before certain charges/credits to cost of revenues and selling, general and administrative expenses, principally associated with acquisition accounting; restructuring and other costs/income including costs arising from facility consolidations such as severance and abandoned lease expense and gains and losses from the sale of real estate and product lines as well as from significant litigation-related matters; and amortization of acquisition-related intangible assets. The company uses this measure because it helps management understand and evaluate the segments' core operating results and facilitates comparison of performance for determining compensation.

# **Business Segment Information**

(In millions)	2023	2022	2021
Revenues			
Life Sciences Solutions	\$ 9,977	\$ 13,532	\$ 15,631
Analytical Instruments	7,263	6,624	6,069
Specialty Diagnostics	4,405	4,763	5,659
Laboratory Products and Biopharma Services	23,041	22,511	14,862
Eliminations	 (1,829)	 (2,515)	 (3,010)
Consolidated revenues	 42,857	 44,915	 39,211
Segment Income			
Life Sciences Solutions	3,420	5,582	7,817
Analytical Instruments	1,908	1,507	1,197
Specialty Diagnostics	1,124	1,024	1,280
Laboratory Products and Biopharma Services	3,358	2,872	1,844
Subtotal reportable segments	9,810	10,985	12,138
Cost of revenues adjustments	(95)	(46)	 (8)
Selling, general and administrative expenses adjustments	(59)	(37)	(144)
Restructuring and other costs	(459)	(114)	(197)
Amortization of acquisition-related intangible assets	(2,338)	(2,395)	(1,761)
Consolidated operating income	6,859	8,393	10,028
Interest income	879	272	43
Interest expense	(1,375)	(726)	(536)
Other income/(expense)	(65)	(104)	(694)
Consolidated income before taxes	\$ 6,298	\$ 7,835	\$ 8,841
Depreciation			
Life Sciences Solutions	\$ 220	\$ 214	\$ 197
Analytical Instruments	93	83	83
Specialty Diagnostics	86	75	128
Laboratory Products and Biopharma Services	669	614	423
Consolidated depreciation	\$ 1,068	\$ 986	\$ 831

Cost of revenues charges included in the above table consist of charges for the sale of inventories revalued at the date of acquisition, inventory write-downs associated with large-scale abandonments of product lines, and accelerated depreciation on fixed assets to estimated salvage value in connection with the consolidation of operations. Selling, general and administrative charges/credits included in the above table consist of significant transaction/integration costs (including reimbursement thereof) related to recent/terminated acquisitions, charges/credits for changes in estimates of contingent acquisition consideration, and charges related to product liability litigation.

(In millions)	2023	2022	2021
Total assets			
Life Sciences Solutions	\$ 20,191	\$ 21,848	\$ 22,751
Analytical Instruments	10,247	10,019	9,692
Specialty Diagnostics	8,636	5,542	6,010
Laboratory Products and Biopharma Services	51,091	51,281	52,639
Corporate/other (a)	8,561	8,464	4,031
Consolidated total assets	\$ 98,726	\$ 97,154	\$ 95,123
Capital expenditures			
Life Sciences Solutions	\$ 178	\$ 490	\$ 810
Analytical Instruments	87	140	79
Specialty Diagnostics	121	112	167
Laboratory Products and Biopharma Services	1,013	1,403	1,327
Corporate/other	80	98	140
Consolidated capital expenditures	\$ 1,479	\$ 2,243	\$ 2,523

(a) Corporate assets consist primarily of cash and cash equivalents and property and equipment at the company's corporate offices.

## Geographical Information

(In millions)	2023	2022	2021
Revenues (b)	 		
United States	\$ 22,013	\$ 23,820	\$ 18,907
Other	 20,844	21,095	 20,304
Consolidated revenues	\$ 42,857	\$ 44,915	\$ 39,211
Long-lived Assets (c)			
United States	\$ 6,352	\$ 6,308	\$ 5,578
Other	4,652	4,565	4,286
Consolidated long-lived assets	\$ 11,004	\$ 10,873	\$ 9,864

- (b) Revenues are attributed to countries based on customer location.
- (c) Includes property, plant and equipment, net, and operating lease ROU assets.

### Note 5. Other Income/(Expense)

In all periods, other income/(expense) includes currency transaction gains/losses on non-operating monetary assets and liabilities and net periodic pension benefit cost/income, excluding the service cost component, which is included in operating expenses on the accompanying statements of income. In 2023, other income/(expense) includes \$46 million of net losses on investments.

In 2022, other income/(expense) includes \$161 million of net losses on investments, \$67 million of net gains on derivative instruments to address certain foreign currency risks, and \$26 million of losses on the early extinguishment of debt (Note 10).

In 2021, other income/(expense) includes \$767 million of losses on the early extinguishment of debt (Note 10), \$36 million of financing costs associated with obtaining bridge financing commitments in connection with the agreement to acquire PPD (Note 2), offset in part by \$66 million of net gains on investments. The company had a cash outlay of \$36 million in 2021 associated with obtaining the bridge financing commitments, included in other financing activities, net, in the accompanying statement of cash flows.

## Note 6. Stock-based Compensation Expense

The company has stock-based compensation plans for its key employees, directors and others. These plans permit the grant of a variety of stock and stock-based awards, including restricted stock units, stock options or performance-based shares, as determined by the compensation committee of the company's Board of Directors or, for certain non-officer grants, by the company's employee equity committee, which consists of its chief executive officer. The company generally issues new shares of its common stock to satisfy option exercises and restricted unit vesting. Grants of stock options and restricted units generally

provide that in the event of both a change in control of the company and a qualifying termination of an option or unit holder's employment, all options and service-based restricted unit awards held by the recipient become immediately vested (unless an employment or other agreement with the employee provides for different treatment).

Compensation cost is based on the grant-date fair value and is recognized ratably over the requisite vesting period or to the date based on qualifying retirement eligibility, if earlier, and is primarily included in selling, general and administrative expenses.

### Stock Options

The company's practice is to grant stock options at fair market value. Options vest over 3-5 years with terms of 7-10 years, assuming continued employment with certain exceptions. Vesting of the option awards is contingent upon meeting certain service conditions. The fair value of most option grants is estimated using the Black-Scholes option pricing model. For option grants that require the achievement of both service and market conditions, a lattice model is used to estimate fair value. The fair value is then amortized on a straight-line basis over the requisite service periods of the awards, which is generally the vesting period. Use of a valuation model requires management to make certain assumptions with respect to selected model inputs. Expected volatility is calculated based on the historical volatility of the company's stock. Historical data on exercise patterns is the basis for estimating the expected life of an option. The risk-free interest rate is based on U.S. Treasury zero-coupon issues with a remaining term which approximates the expected life assumed at the date of grant. The expected annual dividend rate is calculated by dividing the company's annual dividend, based on the most recent quarterly dividend rate, by the closing stock price on the grant date. The compensation expense recognized for all stock-based awards is net of estimated forfeitures. Forfeitures are estimated based on an analysis of actual option forfeitures.

The weighted average assumptions used in the Black-Scholes option pricing model are as follows:

	2023	2022	2021
Expected stock price volatility	25 %	26 %	26 %
Risk free interest rate	4.2 %	2.0 %	0.8 %
Expected life of options (years)	4.7	4.7	4.3
Expected annual dividend	0.3 %	0.2 %	0.2 %

The weighted average per share grant-date fair values of options granted during 2023, 2022 and 2021 were \$159.32, \$135.07 and \$123.97, respectively. The total intrinsic value of options exercised during the same periods was \$320 million, \$336 million and \$501 million, respectively. The intrinsic value is the difference between the market value of the shares on the exercise date and the exercise price of the option.

A summary of the company's option activity for the year ended December 31, 2023 is presented below:

	Shares (in millions)	ex	Weighted average ercise price	Weighted average remaining contractual term (in years)	Aggregate intrinsic value (in millions)
Outstanding at December 31, 2022	5.6	\$	359.27		
Granted	0.7		546.94		
Exercised	(1.0)		218.82		
Canceled/expired	(0.3)		543.25		
Outstanding at December 31, 2023	5.0	\$	401.30	3.9	\$ 714
Vested and unvested expected to vest at December 31, 2023	4.8	\$	396.20	3.9	\$ 712
Exercisable at December 31, 2023	2.8	\$	316.88	2.7	\$ 635

As of December 31, 2023, there was \$162 million of total unrecognized compensation cost related to unvested stock options granted. The cost is expected to be recognized through 2027 with a weighted average amortization period of 2.2 years.

## Restricted Share/Unit Awards

Awards of restricted units convert into an equivalent number of shares of common stock. The awards generally vest over 3-4 years, assuming continued employment, with some exceptions. Vesting of the awards is contingent upon meeting certain service conditions and may also be contingent upon meeting certain performance and/or market conditions. The fair market value of the award at the time of the grant is amortized to expense over the requisite service period of the award, which is

generally the vesting period. Recipients of restricted units have no voting rights but are entitled to accrue dividend equivalents. The fair value of service- and performance-based restricted unit awards is determined based on the number of units granted and the market value of the company's shares on the grant date. For awards with market-based vesting conditions, the company uses a lattice model to estimate the grant-date fair value of the award.

A summary of the company's restricted unit activity for the year ended December 31, 2023 is presented below:

	Units (in millions)	Weighted average grant-date fair value
Unvested at December 31, 2022	0.7	\$ 495.39
Granted	0.4	545.73
Vested	(0.4)	480.45
Forfeited	(0.1)	528.59
Unvested at December 31, 2023	0.6	\$ 533.65

The weighted average per share grant-date fair values of restricted units granted during 2022 and 2021 were \$520.83 and \$444.61, respectively. The total fair value of shares vested during 2023, 2022 and 2021 was \$207 million, \$163 million and \$151 million, respectively.

As of December 31, 2023, there was \$179 million of total unrecognized compensation cost related to unvested restricted stock unit awards. The cost is expected to be recognized through 2027 with a weighted average amortization period of 1.9 years.

### Employee Stock Purchase Plans

Qualifying employees are eligible to participate in an employee stock purchase plan sponsored by the company. Shares may be purchased under the program at 95% of the fair market value at the end of the purchase period and the shares purchased are not subject to a holding period. Shares are purchased through payroll deductions of up to 10% of each participating employee's qualifying gross wages. The company issued 0.1 million, 0.2 million and 0.1 million shares, respectively, of its common stock in 2023, 2022 and 2021 under the employee stock purchase plan.

### Note 7. Pension and Other Postretirement Benefit Plans

#### 401(k) Savings Plan and Other Defined Contribution Plans

The company's 401(k) savings and other defined contribution plans cover the majority of the company's eligible U.S. and certain non-U.S. employees. Contributions to the plans are made by both the employee and the company. Company contributions are based on the level of employee contributions, and are based on formulas determined by the company. In 2023, 2022 and 2021, the company charged to expense \$468 million, \$402 million and \$299 million, respectively, related to its defined contribution plans.

# Defined Benefit Pension Plans

Employees of a number of the company's non-U.S. and certain U.S. subsidiaries participate in defined benefit pension plans covering substantially all full-time employees at those subsidiaries. Some of the plans are unfunded, as permitted under the plans and applicable laws. The company also maintains postretirement healthcare programs at several acquired businesses where certain employees are eligible to participate. The liabilities and costs associated with the company's postretirement healthcare programs are generally funded on a self-insured and insured-premium basis and are not material for any period presented.

The company recognizes the funded status of defined benefit pension and other postretirement benefit plans as an asset or liability. This amount is defined as the difference between the fair value of plan assets and the benefit obligation. The company is required to recognize as a component of other comprehensive items, net of tax, the actuarial gains/losses and prior service costs/credits that arise but were not previously required to be recognized as components of net periodic benefit cost. Other comprehensive items is adjusted as these amounts are later recognized in income as components of net periodic benefit cost.

When a company with a pension plan is acquired, any excess of projected benefit obligation over the plan assets is recognized as a liability and any excess of plan assets over the projected benefit obligation is recognized as an asset. The recognition of a new liability or a new asset results in the elimination of (a) previously existing unrecognized net gain or loss and (b) unrecognized prior service cost or credits.

The company funds annually, at a minimum, the statutorily required minimum amount as actuarially determined. Contributions to the plans included in the following table are estimated at between \$30 million and \$50 million for 2024.

The following table provides a reconciliation of benefit obligations and plan assets of the company's domestic and non-U.S. pension plans:

	[	Domestic pension benefits			Non-U.S. pension benefits			
(In millions)		2023		2022		2023		2022
Accumulated benefit obligation	\$	1,005	\$	995	\$	1,166	\$	1,016
Change in projected benefit obligations								
Projected benefit obligation at beginning of year	\$	995	\$	1,260	\$	1,069	\$	1,552
Acquisitions		_		_		15		51
Service costs		_		_		26		34
Interest costs		47		27		42		20
Settlements		_		_		(37)		(31)
Plan participants' contributions		_		_		9		9
Actuarial (gains) losses		42		(210)		65		(447)
Benefits paid		(79)		(82)		(25)		(19)
Currency translation and other						57		(100)
Projected benefit obligation at end of year	\$	1,005	\$	995	\$	1,221	\$	1,069
Change in fair value of plan assets								
Fair value of plan assets at beginning of year	\$	937	\$	1,226	\$	868	\$	1,302
Acquisitions		_		_		15		14
Actual return on plan assets		84		(212)		29		(347)
Employer contributions		5		5		36		36
Settlements		_		_		(37)		(31)
Plan participants' contributions		_		_		9		9
Benefits paid		(79)		(82)		(25)		(19)
Currency translation and other				<u> </u>		49		(96)
Fair value of plan assets at end of year	\$	947	\$	937	\$	944	\$	868
Funded status	\$	(58)	\$	(58)	\$	(277)	\$	(201)
Amounts recognized in balance sheet								
Noncurrent assets	\$	_	\$	_	\$	65	\$	81
Current liability		(6)		(6)		(11)		(11)
Noncurrent liabilities		(52)		(52)		(331)		(271)
Net amount recognized	\$	(58)	\$	(58)	\$	(277)	\$	(201)
Amounts recognized in accumulated other comprehensive items			-					
Net actuarial loss	\$	217	\$	200	\$	151	\$	74
Prior service credits						(5)		(4)
Net amount recognized	\$	217	\$	200	\$	146	\$	70

For domestic pension plans, actuarial losses experienced in 2023 were driven by decreases in the weighted average discount rates used to determine the projected benefit obligation, as well as differences between actual and expected returns on plan assets for certain portions of plan benefits indexed to asset returns. For non-U.S. pension plans, actuarial losses experienced in 2023 were principally driven by decreases in the weighted average discount rates used to determine the projected benefit obligation.

For domestic pension plans, actuarial gains experienced in 2022 were driven by increases in the weighted average discount rates used to determine the projected benefit obligation, as well as differences between actual and expected returns on plan assets for certain portions of plan benefits indexed to asset returns. For non-U.S. pension plans, actuarial gains experienced in 2022 were principally driven by increases in the weighted average discount rates used to determine the projected benefit obligation.

The actuarial assumptions used to compute the funded status for the plans are based upon information available as of December 31, 2023 and 2022 and are as follows:

	Domestic pension benefits		Non-U.S. pension b	enefits
	2023	2022	2023	2022
Weighted average assumptions used to determine projected benefit obligations				
Discount rate for determining benefit obligation	4.82 %	5.01 %	3.47 %	3.91 %
Interest crediting rate for cash balance plans	4.76 %	4.96 %	2.06 %	2.19 %
Average rate of increase in employee compensation	N/A	N/A	2.64 %	2.78 %

The actuarial assumptions used to compute the net periodic pension benefit cost (income) are based upon information available as of the beginning of the year, as presented in the following table:

	Domestic pension benefits			Non-U.S	. pension benefit	:S
_	2023	2022	2021	2023	2022	2021
Weighted average assumptions used to determine net benefit cost (income)						
Discount rate - service cost	N/A	N/A	N/A	3.62 %	1.00 %	0.65 %
Discount rate - interest cost	5.01 %	2.70 %	2.33 %	3.95 %	1.36 %	0.80 %
Average rate of increase in employee compensation	N/A	N/A	N/A	2.77 %	2.73 %	2.30 %
Expected long-term rate of return on assets	6.25 %	4.75 %	4.25 %	4.33 %	2.33 %	2.02 %

The discount rate reflects the rate the company would have to pay to purchase high-quality investments that would provide cash sufficient to settle its current pension obligations. The discount rate is determined based on a range of factors, including the rates of return on high-quality, fixed-income corporate bonds and the related expected duration of the obligations or, in certain instances, the company has used a hypothetical portfolio of high quality instruments with maturities that mirror the benefit obligation in order to accurately estimate the discount rate relevant to a particular plan.

The company utilizes a full yield curve approach in the estimation of these components by applying the specific spot-rates along the yield curve used in the determination of the benefit obligation to the relevant projected cash flows.

The expected long-term rate of return on plan assets reflects the average rate of earnings expected on the funds invested, or to be invested, to provide for the benefits included in the projected benefit obligations. In determining the expected long-term rate of return on plan assets, the company considers the relative weighting of plan assets, the historical performance of total plan assets and individual asset classes and economic and other indicators of future performance. In addition, the company may consult with and consider the opinions of financial and other professionals in developing appropriate return benchmarks.

Asset management objectives include maintaining an adequate level of diversification to reduce interest rate and market risk and providing adequate liquidity to meet immediate and future benefit payment requirements.

The expected rate of compensation increase reflects the long-term average rate of salary increases and is based on historic salary increase experience and management's expectations of future salary increases.

The projected benefit obligation and fair value of plan assets for the company's qualified and non-qualified pension plans with projected benefit obligations in excess of plan assets are as follows:

	 Pension plans				
(In millions)	2023		2022		
Pension plans with projected benefit obligations in excess of plan assets	 				
Projected benefit obligation	\$ 1,752	\$	1,636		
Fair value of plan assets	1,352		1,296		

The accumulated benefit obligation and fair value of plan assets for the company's qualified and non-qualified pension plans with accumulated benefit obligations in excess of plan assets are as follows:

	 Pension plans			
(In millions)	2023		2022	
Pension plans with accumulated benefit obligations in excess of plan assets				
Accumulated benefit obligation	\$ 1,695	\$	1,583	
Fair value of plan assets	1,349		1,294	

The measurement date used to determine benefit information is December 31 for all plan assets and benefit obligations.

The net periodic pension benefit cost (income) includes the following components:

	Domestic pension benefits						Non-U.S. pension benefits					
(In millions)		2023		2022		2021		2023		2022		2021
Components of net benefit cost (income)												
Service cost	\$	_	\$	_	\$	_	\$	26	\$	34	\$	27
Interest cost on benefit obligation		47		27		23		42		20		11
Expected return on plan assets		(59)		(45)		(40)		(37)		(26)		(19)
Amortization of actuarial net loss		_		4		7		2		7		12
Amortization of prior service cost (benefit)		_		_		_		(1)		(1)		_
Settlement/curtailment loss (gain)								1		(2)		_
Net periodic benefit cost (income)	\$	(12)	\$	(14)	\$	(10)	\$	33	\$	32	\$	31

Expected benefit payments are estimated using the same assumptions used in determining the company's benefit obligation at December 31, 2023. Benefit payments will depend on future employment and compensation levels, average years employed and average life spans, among other factors, and changes in any of these factors could significantly affect these estimated future benefit payments. Estimated future benefit payments during the next five years and in the aggregate for the five fiscal years thereafter, are as follows:

(In millions)	Domestic pe	nsion benefits	Non	-U.S. pension benefits
Expected benefit payments				
2024	\$	81	\$	52
2025		79		55
2026		80		59
2027		79		60
2028		79		65
2029-2033		374		354

# Domestic Pension Plan Assets

The company's overall objective is to manage the assets in a liability framework where investments are selected that are expected to have similar changes in fair value as the related liabilities will have upon changes in interest rates. The company invests in a portfolio of both return-seeking and liability-hedging assets, primarily through the use of institutional collective funds, to achieve long-term growth and to insulate the funded position from interest rate volatility. The strategic asset allocation uses a combination of risk controlled and index strategies in fixed income and global equities. The target allocations for the investments are approximately 10% to funds investing in U.S. equities, approximately 10% to funds investing in international equities and approximately 80% to funds investing in fixed income securities. The portfolio maintains enough liquidity at all times to meet the near-term benefit payments.

# Non-U.S. Pension Plan Assets

The company maintains specific plan assets for many of the individual pension plans outside the U.S. The investment strategy of each plan has been uniquely established based on the country specific standards and characteristics of the plans. Several of the plans have contracts with insurance companies whereby the market risks of the benefit obligations are borne by the insurance companies. When assets are held directly in investments, generally the objective is to invest in a portfolio of diversified assets with a variety of fund managers. The investments may include equity funds, fixed income funds, hedge funds,

multi-asset funds, alternative investments and derivative funds with the target asset allocations ranging from approximately 0% - 25% for equity funds, 30% - 90% for fixed income funds, 0% - 40% for multi-asset funds, 0% - 4% for alternative investments, 0% - 4% for real estate funds and 0% - 45% for funds holding derivatives. The derivatives held by the funds are primarily interest rate swaps intended to match the movements in the plan liabilities. Each plan maintains enough liquidity at all times to meet the near-term benefit payments.

The fair values of the company's plan assets at December 31, 2023 and 2022, by asset category are as follows:

	Decem	nber 31,	Quoted prices in active markets	Significant other observable inputs	Significant unobservable inputs	Not	subject to
(In millions)		2023	(Level 1)	(Level 2)	(Level 3)		eveling (a)
Domestic pension plan assets							
U.S. equity funds	\$	93	\$ _	\$ _	\$ _	\$	93
International equity funds		93	_	_	_		93
Fixed income funds		739	_	_	_		739
Money market funds		22	 		_		22
Total domestic pension plans	\$	947	\$ _	\$ 	\$ 	\$	947
Non-U.S. pension plan assets			,				
Equity funds	\$	7	\$ _	\$ _	\$ _	\$	7
Fixed income funds		346	9	_	_		337
Multi-asset funds		66	_	_	_		66
Derivative funds		184	_	_	_		184
Alternative investments		1	_	_	_		1
Insurance contracts		333	_	333	_		_
Real estate funds		1		_	_		1
Cash / money market funds		6	4		_		2
Total non-U.S. pension plans	\$	944	\$ 13	\$ 333	\$ 	\$	598

(a) Investments measured at the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy.

	Decer	mber 31,	Quoted prices in active markets	Significant other observable inputs	Significant unobservable inputs	No	ot subject to
(In millions)		2022	(Level 1)	(Level 2)	(Level 3)	140	leveling (a)
Domestic pension plan assets			 				
U.S. equity funds	\$	89	\$ _	\$ _	\$ _	\$	89
International equity funds		91	_	_	_		91
Fixed income funds		739	_	_	_		739
Money market funds		18	_	_	_		18
Total domestic pension plans	\$	937	\$ 	\$ _	\$ 	\$	937
Non-U.S. pension plan assets							
Equity funds	\$	8	\$ _	\$ _	\$ _	\$	8
Fixed income funds		299	_	_	_		299
Multi-asset funds		56	_	_	_		56
Derivative funds		190	_	_	_		190
Insurance contracts		306	_	306	_		_
Cash / money market funds		9	4	_	_		5
Total non-U.S. pension plans	\$	868	\$ 4	\$ 306	\$ 	\$	558

(a) Investments measured at the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy.

# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

The tables above present the fair value of the company's plan assets in accordance with the fair value hierarchy (Note 14). Certain investments that are measured at fair value using the net asset value per share practical expedient have not been classified in the fair value hierarchy. The fair value amounts of these investments presented in the above tables are intended to permit reconciliation of the fair value hierarchy to the amounts presented for the total pension plan assets. These investments were also redeemable at the balance sheet date or within limited time restrictions.

#### Note 8. Income Taxes

The components of income before provision for income taxes are as follows:

(In millions)		2023	2022	2021
U.S.	\$	2,431	\$ 3,859	\$ 3,340
Non-U.S.		3,867	3,976	5,501
Income before income taxes	\$	6,298	\$ 7,835	\$ 8,841
The components of the provision for income taxes are as follows:				
(In millions)		2023	2022	2021
Current income tax provision				
Federal	\$	228	\$ 813	\$ 446
Non-U.S.		1,206	633	1,148
State		150	254	160
		1,584	 1,700	 1,754
Deferred income tax provision (benefit)	<u> </u>	,		
Federal	\$	(551)	\$ (611)	\$ (227)
Non-U.S.		(647)	(314)	(399)
State		(102)	(72)	(19)
	<u> </u>	(1,300)	(997)	(645)
Provision for income taxes	\$	284	\$ 703	\$ 1,109

The provision for income taxes in the accompanying statement of income differs from the provision calculated by applying the statutory federal income tax rate to income before income taxes due to the following:

(In millions)	2023	2022		2021	
Statutory federal income tax rate	 21 %		21 %	21 %	
Provision for income taxes at statutory rate	\$ 1,323	\$	1,645	\$ 1,857	
Increases (decreases) resulting from:					
Foreign rate differential	(223)		(329)	(255)	
Income tax credits	(276)		(202)	(315)	
Global intangible low-taxed income	113		96	76	
Foreign-derived intangible income	(108)		(149)	(119)	
Excess tax benefits from stock options and restricted stock units	(69)		(80)	(124)	
Provision for (reversal of) tax reserves, net	13		(544)	(17)	
Intra-entity transfers	(233)		(18)	(284)	
Foreign exchange loss on inter-company debt refinancing	(112)		_	_	
Provision for (reversal of) valuation allowances, net	(32)		344	36	
Withholding taxes	33		84	164	
Tax return reassessments and settlements	(187)		(210)	1	
State income taxes, net of federal tax	70		111	82	
Other, net	 (28)		(45)	7	
Provision for income taxes	\$ 284	\$	703	\$ 1,109	

The company has operations and a taxable presence in approximately 70 countries outside the U.S. The company's effective income tax rate differs from the U.S. federal statutory rate each year due to certain operations that are subject to tax incentives, state and local taxes, and foreign taxes that are different than the U.S. federal statutory rate.

During 2023, the company released valuation allowances of \$32 million in jurisdictions where the deferred tax assets are now expected to be realized. In 2023 the company also recorded a tax benefit of \$127 million for U.S. tax credits and the revaluation of net operating loss carryforwards due to higher tax rates as a result of its tax return resubmissions, a \$91 million tax benefit, net of related tax expenses, from a foreign exchange loss on an intercompany debt refinancing transaction, and \$233 million of tax benefits resulting from intra-entity transactions.

During 2022, the company settled an IRS audit relating to the 2017 and 2018 tax years. The company recorded a \$208 million net tax benefit primarily from this settlement and related impacts, which resulted in a decrease in the company's unrecognized tax benefits of \$658 million. The company recorded \$49 million of charges for expired tax credits and other related components of the settlement. The company recorded a charge of \$395 million to establish a valuation allowance against certain U.S. foreign tax credits which the company believes will more likely than not expire unutilized. The company also recorded \$101 million of additional net unrecognized tax benefit liabilities related to other tax audits.

During 2021, the company recorded a \$188 million income tax benefit related to the deferred tax implications of an intra-entity transfer of assets. Also in 2021, the company recorded a \$96 million income tax benefit related to a capital loss resulting from certain intra-entity transactions.

The company generally receives a tax deduction upon the exercise of non-qualified stock options by employees, or the vesting of restricted stock units held by employees, for the difference between the exercise price and the market price of the underlying common stock on the date of exercise. The company uses the incremental tax benefit approach for utilization of tax attributes. These excess tax benefits reduce the tax provision. In 2023, 2022 and 2021, the company's tax provision was reduced by \$69 million, \$80 million and \$124 million, respectively, of such benefits.

Net deferred tax asset/(liability) in the accompanying balance sheet consists of the following:

(In millions)	2023	3	2022
Deferred tax asset/(liability)			
Depreciation and amortization	\$ (4,286)	\$	(4,277)
Net operating loss and credit carryforwards	2,385		1,951
Reserves and accruals	157		140
Accrued compensation	299		259
Inventory basis difference	275		364
Deferred interest	753		445
Research and development and other capitalized costs	380		220
Unrealized (gains) losses on hedging instruments	(66)		(199)
Other, net	329		435
Deferred tax assets/(liabilities), net before valuation allowance	226		(662)
Less: Valuation allowance	1,317		1,322
Deferred tax assets/(liabilities), net	\$ (1,091)	\$	(1,984)

The company estimates the degree to which tax assets, losses and credit carryforwards will result in a benefit based on expected profitability by tax jurisdiction and provides a valuation allowance for tax assets and loss and credit carryforwards that it believes will more likely than not expire unutilized. At December 31, 2023, all of the company's valuation allowance relates to deferred tax assets, primarily net operating losses and disallowed interest expense carryforward, for which any subsequently recognized tax benefits will reduce income tax expense.

The changes in the valuation allowance are as follows:

	Year Ended December 31,							
(In millions)		2023		2022		2021		
Beginning balance	\$	1,322	\$	968	\$	933		
Additions (reductions) charged to income tax provision, net		(32)		344		24		
Additions due to acquisitions		4		14		30		
Currency translation and other		23		(4)		(19)		
Ending balance	\$	1,317	\$	1,322	\$	968		

At December 31, 2023, the company had net federal, state and non-U.S. net operating loss carryforwards of \$70 million, \$93 million and \$1.42 billion, respectively. Use of the carryforwards is limited based on the future income of certain subsidiaries. Of the federal net operating loss carryforwards, \$30 million expire in the years 2024 through 2037, and the remainder do not expire. Of the state net operating loss carryforwards, \$83 million expire in the years 2024 through 2042, and the remainder do not expire. Of the net non-U.S. net operating loss carryforwards, \$435 million expire in the years 2026 through 2043, and the remainder do not expire.

At December 31, 2023, the company had foreign tax credit carryforwards of \$648 million and deferred interest carryforwards of \$753 million. The foreign tax credit carryforwards will expire in the years 2025 through 2032. Of the deferred interest carryforwards, \$149 million expire in the years 2025 through 2033 and the remainder do not expire.

U.S. federal taxes have been recorded on approximately \$34 billion of undistributed foreign earnings as of December 31, 2023. A provision has not been made for certain U.S. state income taxes or additional non-U.S. taxes that would be due when cash is repatriated to the U.S. as the company's undistributed foreign earnings are intended to be reinvested outside of the U.S. indefinitely. The determination of the amount of the unrecognized deferred tax liability related to the undistributed foreign earnings is not practicable due to the uncertainty in the manner in which these earnings will be distributed. The company's intent is to only make distributions from non-U.S. subsidiaries in the future when they can be made at no net tax cost.

### Unrecognized Tax Benefits

As of December 31, 2023, the company had \$0.54 billion of unrecognized tax benefits substantially all of which, if recognized, would reduce the effective tax rate.

A reconciliation of the beginning and ending amounts of unrecognized tax benefits is as follows:

(In millions)	2023	 2022	2021
Beginning balance	\$ 572	\$ 1,124	\$ 1,091
Additions due to acquisitions	_	15	26
Additions for tax positions of current year	4	104	32
Additions for tax positions of prior years	34	24	60
Reductions for tax positions of prior years	(43)	(659)	(5)
Closure of tax years	(6)	(4)	(27)
Settlements	 (21)	 (32)	(53)
Ending balance	\$ 540	\$ 572	\$ 1,124

Substantially all of the unrecognized tax benefits are classified as long-term liabilities. The company does not expect its unrecognized tax benefits to change significantly over the next twelve months.

During 2023, the company's unrecognized tax benefits decreased by \$12 million as a result of uncertain tax positions relating to foreign tax positions and decreased \$19 million relating to U.S. federal and state tax positions.

During 2022, the company's unrecognized tax benefits increased by \$143 million as a result of uncertain tax positions relating to foreign tax positions and decreased \$610 million relating to U.S. federal and state tax positions which included \$658 million from the settlement of the IRS audit of the 2017 and 2018 tax years. The company also assumed \$15 million of uncertain tax benefits as part of the acquisition of PPD.

During 2021, the company's unrecognized tax benefits increased by \$80 million as a result of uncertain tax positions relating to foreign tax positions and decreased \$75 million relating to U.S. federal and state tax positions. The company also assumed \$26 million of uncertain tax benefits as part of the acquisition of PPD.

The company classified interest and penalties related to unrecognized tax benefits as income tax expense. The total amount of interest and penalties related to uncertain tax positions and recognized in the balance sheet as of December 31, 2023 and 2022 was \$95 million and \$74 million, respectively.

The company conducts business globally and, as a result, Thermo Fisher or one or more of its subsidiaries files income tax returns in the U.S. federal jurisdiction and various state and foreign jurisdictions. In the normal course of business, the company is subject to examination by taxing authorities throughout the world, including such major jurisdictions as Australia, Canada, China, Denmark, Finland, France, Germany, Japan, Singapore, Sweden, the United Kingdom and the United States. With few exceptions, the company is no longer subject to U.S. state and local or non-U.S. income tax examinations for years before 2012 and no longer subject to U.S. federal income tax examinations for years before 2019.

## Note 9. Earnings per Share

(In millions except per share amounts)	2023	2022	2021
Net income attributable to Thermo Fisher Scientific Inc.	\$ 5,995	\$ 6,950	\$ 7,725
Basic weighted average shares	386	392	394
Plus effect of: stock options and restricted stock units	2	2	3
Diluted weighted average shares	388	394	397
Basic earnings per share	\$ 15.52	\$ 17.75	\$ 19.62
Diluted earnings per share	\$ 15.45	\$ 17.63	\$ 19.46
Antidilutive stock options excluded from diluted weighted average shares	2	2	1

## Note 10. Debt and Other Financing Arrangements

	Effective interest rate at December 31.	December 31,	December 31,
(Dollars in millions)	2023	2023	2022
Commercial Paper		\$ _	\$ 310
Floating Rate (SOFR + 0.35%) 1.5-Year Senior Notes, Due 4/18/2023		_	1,000
Floating Rate (SOFR + 0.39%) 2-Year Senior Notes, Due 10/18/2023		_	500
0.797% 2-Year Senior Notes, Due 10/18/2023		_	1,350
Floating Rate (EURIBOR + 0.20%) 2-Year Senior Notes Due 11/18/2023 (eurodenominated)		_	1,819
0.000% 2-Year Senior Notes Due 11/18/2023 (euro-denominated)		_	589
0.75% 8-Year Senior Notes, Due 9/12/2024 (euro-denominated)	0.93 %	1,104	1,071
Floating Rate (SOFR + 0.53%) 3-Year Senior Notes, Due 10/18/2024		_	500
1.215% 3-Year Senior Notes, Due 10/18/2024	1.42 %	2,500	2,500
0.125% 5.5-Year Senior Notes, Due 3/1/2025 (euro-denominated)	0.41 %	883	857
2.00% 10-Year Senior Notes, Due 4/15/2025 (euro-denominated)	2.10 %	706	686
0.853% 3-Year Senior Notes, Due 10/20/2025 (yen-denominated)	1.05 %	158	170
0.000% 4-Year Senior Notes Due 11/18/2025 (euro-denominated)	0.15 %	607	589
3.20% 3-Year Senior Notes, Due 1/21/2026 (euro-denominated)	3.39 %	552	535
1.40% 8.5-Year Senior Notes, Due 1/23/2026 (euro-denominated)	1.53 %	773	749
4.953% 3-Year Senior Notes, Due 8/10/2026	5.19 %	600	_
5.000% 3-Year Senior Notes due 12/5/2026	5.00 %	1,000	_
1.45% 10-Year Senior Notes, Due 3/16/2027 (euro-denominated)	1.65 %	552	535
1.75% 7-Year Senior Notes, Due 4/15/2027 (euro-denominated)	1.97 %	662	642
1.054% 5-Year Senior Notes, Due 10/20/2027 (yen-denominated)	1.18 %	205	221
4.80% 5-Year Senior Notes, Due 11/21/2027	5.00 %	600	600

	Effective interest rate at December 31,	December 31,	December 31,
(Dollars in millions)	2023	2023	2022
0.50% 8.5-Year Senior Notes, Due 3/1/2028 (euro-denominated)	0.77 %	883	857
0.77% 5-Year Senior Notes, Due 9/6/2028 (yen-denominated)	0.90 %	206	_
1.375% 12-Year Senior Notes, Due 9/12/2028 (euro-denominated)	1.46 %	662	642
1.750% 7-Year Senior Notes, Due 10/15/2028	1.89 %	700	700
5.000% 5-Year Senior Notes due 1/31/2029	5.00 %	1,000	_
1.95% 12-Year Senior Notes, Due 7/24/2029 (euro-denominated)	2.08 %	773	749
2.60% 10-Year Senior Notes, Due 10/1/2029	2.74 %	900	900
1.279% 7-Year Senior Notes, Due 10/19/2029 (yen-denominated)	1.44 %	33	36
4.977% 7-Year Senior Notes, Due 8/10/2030	5.12 %	750	_
0.80% 9-Year Senior Notes, Due 10/18/2030 (euro-denominated)	0.89 %	1,932	1,873
0.875% 12-Year Senior Notes, Due 10/1/2031 (euro-denominated)	1.13 %	993	963
2.00% 10-Year Senior Notes, Due 10/15/2031	2.23 %	1,200	1,200
2.375% 12-Year Senior Notes, Due 4/15/2032 (euro-denominated)	2.55 %	662	642
1.49% 10-Year Senior Notes, Due 10/20/2032 (yen-denominated)	1.60 %	45	48
4.95% 10-Year Senior Notes, Due 11/21/2032	5.09 %	600	600
5.086% 10-Year Senior Notes, Due 8/10/2033	5.20 %	1,000	_
1.125% 12-Year Senior Notes, Due 10/18/2033 (euro-denominated)	1.20 %	1,656	1,606
5.200% 10-Year Senior Notes due 1/31/2034	5.20 %	500	_
3.65% 12-Year Senior Notes, Due 11/21/2034 (euro-denominated)	3.76 %	828	803
1.50% 12-Year Senior Notes, due 9/6/2035 (yen-denominated)	1.58 %	152	_
2.875% 20-Year Senior Notes, Due 7/24/2037 (euro-denominated)	2.94 %	773	749
1.50% 20-Year Senior Notes, Due 10/1/2039 (euro-denominated)	1.73 %	993	963
2.80% 20-Year Senior Notes, Due 10/15/2041	2.90 %	1,200	1,200
1.625% 20-Year Senior Notes, Due 10/18/2041 (euro-denominated)	1.77 %	1,380	1,339
2.069% 20-Year Senior Notes, Due 10/20/2042 (yen-denominated)	2.13 %	104	111
5.404% 20-Year Senior Notes, due 8/10/2043	5.50 %	600	_
2.02% 20-Year Senior Notes, due 9/6/2043 (yen-denominated)	2.06 %	206	_
5.30% 30-Year Senior Notes, Due 2/1/2044	5.37 %	400	400
4.10% 30-Year Senior Notes, Due 8/15/2047	4.23 %	750	750
1.875% 30-Year Senior Notes, Due 10/1/2049 (euro-denominated)	1.98 %	1,104	1,071
2.00% 30-Year Senior Notes, Due 10/18/2051 (euro-denominated)	2.07 %	828	803
2.382% 30-Year Senior Notes, Due 10/18/2052 (yen-denominated)	2.43 %	236	254
Other		77	79
Total borrowings at par value		35,028	34,561
Unamortized discount		(113)	(112)
Unamortized debt issuance costs		(188)	(171)
Total borrowings at carrying value		34,727	34,278
Finance lease liabilities		190	210
Less: Short-term obligations and current maturities		3,609	5,579
Long-term obligations		\$ 31,308	\$ 28,909
Long to Jongulons			

SOFR - Secured Overnight Financing Rate EURIBOR - Euro Interbank Offered Rate

The effective interest rates for the fixed-rate debt include the stated interest on the notes, the accretion of any discounts/premiums and the amortization of any debt issuance costs.

See Note 14 for fair value information pertaining to the company's long-term borrowings.

As of December 31, 2023, the annual repayment requirements for debt obligations are as follows:

(In millions)	Borrowings	Finance Lease Liabilities
2024	\$ 3,604	\$ 5
2025	2,356	13
2026	2,925	12
2027	2,020	10
2028	2,451	8
2029 and thereafter	21,672	142
	\$ 35,028	\$ 190

In addition to available borrowings under the company's revolving credit agreements, discussed below, the company had unused lines of credit of \$69 million as of December 31, 2023. These unused lines of credit generally provide for short-term unsecured borrowings at various interest rates.

#### Credit Facilities

The company has a revolving credit facility (the Facility) with a bank group that provides for up to \$.00 billion of unsecured multicurrency revolving credit. The Facility expires on January 7, 2027. The revolving credit agreement calls for interest at either a Term SOFR, a EURIBOR-based rate (for funds drawn in euro) or a rate based on the prime lending rate of the agent bank, at the company's option. The agreement contains affirmative, negative and financial covenants, and events of default customary for facilities of this type. The covenants in the Facility include a Consolidated Net Interest Coverage Ratio (Consolidated EBITDA to Consolidated Net Interest Expense), as such terms are defined in the Facility. Specifically, the company has agreed that, so long as any lender has any commitment under the Facility, any letter of credit is outstanding under the Facility, or any loan or other obligation is outstanding under the Facility, it will maintain a minimum Consolidated Net Interest Coverage Ratio of 3.5:1.0 as of the last day of any fiscal quarter. As of December 31, 2023, no borrowings were outstanding under the Facility, although available capacity was reduced by immaterial outstanding letters of credit.

### Commercial Paper Programs

The company has commercial paper programs pursuant to which it may issue and sell unsecured, short-term promissory notes (CP Notes). Under the U.S. program, a) maturities may not exceed 397 days from the date of issue and b) the CP Notes are issued on a private placement basis under customary terms in the commercial paper market and are not redeemable prior to maturity nor subject to voluntary prepayment. Under the euro program, maturities may not exceed 183 days and may be denominated in euro, U.S. dollars, Japanese yen, British pounds sterling, Swiss franc, Canadian dollars or other currencies. Under both programs, the CP Notes are issued at a discount from par (or premium to par, in the case of negative interest rates), or, alternatively, are sold at par and bear varying interest rates on a fixed or floating basis.

# Senior Notes

Interest is payable quarterly on the floating rate senior notes, annually on the euro-denominated fixed rate senior notes and semiannually on all other senior notes. Each of the U.S. dollar, euro-denominated fixed rate senior notes and yen-denominated private placement notes may be redeemed at a redemption price of 100% of the principal amount plus a specified make-whole premium and accrued interest, together with swap breakage costs payable to holders of yen-denominated private placement notes who have entered into cross-currency swap agreements. The company is subject to certain affirmative and negative covenants under the indentures and note purchase agreement governing the senior notes, the most restrictive of which limits the ability of the company to pledge certain property and assets as security under borrowing arrangements. The company was in compliance with all covenants at December 31, 2023.

In 2022 the company completed the full allocation of an amount equal to the net proceeds from the 0.000% senior notes due 2025 to finance or refinance, in whole or in part, certain COVID-19 response projects.

In 2022, the company redeemed all of its 3.650% Senior Notes due 2025. In connection with the redemption, the company incurred \$26 million of losses on the early extinguishment of debt included in other income/(expense) on the accompanying statement of income.

In 2021, the company redeemed some of its existing senior notes. In connection with these redemptions, the company incurred \$767 million of losses on the early extinguishment of debt included in other income/(expense) on the accompanying statement of income. Upon redemption of the senior notes, the company terminated the related fixed to floating rate interest rate swap arrangements and received \$22 million, included in other financing activities, net, in the accompanying statement of cash flows.

Thermo Fisher Scientific (Finance I) B.V. (Thermo Fisher International), a wholly-owned finance subsidiary of the company, issued each of the following notes outstanding as of December 31, 2023, included in the table above (collectively, the "Euronotes") in registered public offerings: the 0.00% Senior Notes due 2025, the 0.80% Senior Notes due 2030, the 1.125% Senior Notes due 2033, the 1.625% Senior Notes due 2041, and the 2.00% Senior Notes due 2051. The company has fully and unconditionally guaranteed all of Thermo Fisher International's obligations under the Euronotes and all of Thermo Fisher International's other debt securities, and no other subsidiary of the company will guarantee these obligations. Thermo Fisher International is a "finance subsidiary" as defined in Rule 13-01(a)(4)(vi) of the Exchange Act, with no assets or operations other than those related to the issuance, administration and repayment of the Euronotes and other debt securities issued by Thermo Fisher International from time to time. The financial condition, results of operations and cash flows of Thermo Fisher International are consolidated in the financial statements of the company.

### Note 11. Leases

As a lessee, the company leases certain logistics, office, and manufacturing facilities, as well as vehicles, copiers, and other equipment. These operating leases generally have remaining lease terms between 1 month and 30 years, and some include options to extend (generally for 1 to 10 years) or have options to terminate the arrangement within 1 year.

The company has guaranteed the residual value of three leased operating facilities with lease terms ending in 2024, 2025 and 2028. The company has agreed with the lessor to comply with certain financial covenants consistent with its other debt arrangements (Note 10). The aggregate maximum guarantee under these three lease arrangements is \$147 million. Operating lease ROU assets and lease liabilities for these lease arrangements are recorded on the consolidated balance sheet as of December 31, 2023, but exclude any amounts for residual value guarantees.

As a lessee, the consolidated financial statements include the following relating to operating leases:

As a lessee, the consolidated infancial statements include the following relating to	opera	tilly leases.		
(Dollars in millions)		2023	2022	2021
Statement of income				
Operating lease costs	\$	355	\$ 351	\$ 254
Variable lease costs		115	109	66
Statement of cash flows				
Cash used in operating activities for payments of amounts included in the measurement of operating lease liabilities	\$	410	\$ 289	\$ 288
Operating lease ROU assets obtained in exchange for new operating lease liabilities		234	430	293
Balance sheet				
ROU assets - included in other assets	\$	1,556	\$ 1,593	
Operating lease liabilities - included in other accrued expenses		263	272	
Operating lease liabilities - included in other long-term liabilities		1,244	1,313	
Weighted average at end of year				
Remaining operating lease term		9.2 years	9.4 years	
Discount rate		4.0 %	3.2 %	

Lease costs arising from finance leases, short-term leases, and sublease income are not material. See Note 10 for additional information relating to finance leases.

As of December 31, 2023, future payments of operating lease liabilities are as follows:

(In millions)	
2024	\$ 294
2025	288
2026	242
2027	172
2028	131
2029 and thereafter	723
Total lease payments	1,850
Less: imputed interest	343
Total operating lease liability	\$ 1,507

As a lessor, operating leases, sales-type leases and direct financing leases are not material.

## Note 12. Commitments and Contingencies

### Purchase Obligations

The company has entered into unconditional purchase obligations, in the ordinary course of business, that include agreements to purchase goods, services or fixed assets and to pay royalties that are enforceable and legally binding and that specify all significant terms including: fixed or minimum quantities to be purchased; fixed, minimum or variable price provisions; and the approximate timing of the transaction. Purchase obligations exclude agreements that are cancelable at any time without penalty. The aggregate amount of the company's unconditional purchase obligations totaled \$2.53 billion at December 31, 2023, the majority of which are expected to be settled during 2024.

#### Letters of Credit, Guarantees and Other Commitments

Outstanding letters of credit and bank guarantees totaled \$315 million at December 31, 2023. Substantially all of these letters of credit and guarantees expire before 2040.

Outstanding surety bonds and other guarantees totaled \$93 million at December 31, 2023. The expiration of these bonds and guarantees ranges through 2025.

The letters of credit, bank guarantees and surety bonds principally secure performance obligations, and allow the holder to draw funds up to the face amount of the letter of credit, bank guarantee or surety bond if the applicable business unit does not perform as contractually required.

The company has funding commitments totaling \$164 million at December 31, 2023, related to investments.

The company is a guarantor of pension plan obligations of a divested business. The purchaser of the divested business has agreed to pay for the pension benefits, however the company was required to guarantee payment of these pension benefits should the purchaser fail to do so. The amount of the guarantee at December 31, 2023 was \$24 million.

In connection with the sale of businesses of the company, the buyers have assumed certain contractual obligations of such businesses and have agreed to indemnify the company with respect to those assumed liabilities. In the event a third-party to a transferred contract does not recognize the transfer of obligations or a buyer defaults on its obligations under the transferred contract, the company could be liable to the third-party for such obligations. However, in such event, the company would be entitled to seek indemnification from the buyer.

# Indemnifications

In conjunction with certain transactions, primarily divestitures, the company has agreed to indemnify the other parties with respect to certain liabilities related to the businesses that were sold or leased properties that were abandoned (e.g., retention of certain environmental, tax, employee and product liabilities). The scope and duration of such indemnity obligations vary from transaction to transaction. Where probable, an obligation for such indemnifications is recorded as a liability. Generally, a maximum obligation cannot be reasonably estimated. Other than obligations recorded as liabilities at the time of divestiture, historically the company has not made significant payments for these indemnifications.

In connection with the company's efforts to reduce the number of facilities that it occupies, the company has vacated some of its leased facilities or sublet them to third parties. When the company sublets a facility to a third-party, it remains the primary obligor under the master lease agreement with the owner of the facility. As a result, if a third-party vacates the sublet facility,

the company would be obligated to make lease or other payments under the master lease agreement. The company believes that the financial risk of default by sublessors is individually and in the aggregate not material to the company's financial position or results of operations.

In connection with the sale of products in the ordinary course of business, the company often makes representations affirming, among other things, that its products do not infringe on the intellectual property rights of others and agrees to indemnify customers against third-party claims for such infringement. The company has not been required to make material payments under such provisions.

# **Environmental Matters**

The company is currently involved in various stages of investigation and remediation related to environmental matters. The company cannot predict all potential costs related to environmental remediation matters and the possible impact on future operations given the uncertainties regarding the extent of the required cleanup, the complexity and interpretation of applicable laws and regulations, the varying costs of alternative cleanup methods and the extent of the company's responsibility. Expenses for environmental remediation matters related to the costs of installing, operating and maintaining groundwater-treatment systems and other remedial activities related to historical environmental contamination at the company's domestic and international facilities were not material in any period presented. The company records accruals for environmental remediation liabilities, based on current interpretations of environmental laws and regulations, when it is probable that a liability has been incurred and the amount of such liability can be reasonably estimated. The company calculates estimates based upon several factors, including input from environmental specialists and management's knowledge of and experience with these environmental matters. The company includes in these estimates potential costs for investigation, remediation and operation and maintenance of cleanup sites. At December 31, 2023, the company's total environmental liability was approximately \$75 million. While management believes the accruals for environmental remediation are adequate based on current estimates of remediation costs, the company may be subject to additional remedial or compliance costs due to future events such as changes in existing laws and regulations, changes in agency direction or enforcement policies, developments in remediation technologies or changes in the conduct of the company's operations, which could have a material adverse effect on the company's financial position, results of operations and cash flows.

### Litigation and Related Contingencies

The company is involved in various disputes, governmental and/or regulatory inspections, inquiries, investigations and proceedings, and litigation matters that arise from time to time in the ordinary course of business. The disputes and litigation matters include product liability, intellectual property, employment and commercial issues. The company determines the probability and range of possible loss based on the current status of each of these matters. A liability is recorded in the financial statements if it is believed to be probable that a loss has been incurred and the amount of the loss can be reasonably estimated. The company establishes a liability that is an estimate of amounts expected to be paid in the future for events that have already occurred. The company accrues the most likely amount or at least the minimum of the range of probable loss when a range of probable loss can be estimated. The accrued liabilities are based on management's judgment as to the probability of losses for asserted and unasserted claims and, where applicable, actuarially determined estimates. Accrual estimates are adjusted as additional information becomes known or payments are made. The amount of ultimate loss may differ from these estimates. Due to the inherent uncertainties associated with pending litigation or claims, the company cannot predict the outcome, nor, with respect to certain pending litigation or claims where no liability has been accrued, make a meaningful estimate of the reasonably possible loss or range of loss that could result from an unfavorable outcome. The company has no material accruals for pending litigation or claims for which accrual amounts are not disclosed below, nor are material losses deemed probable for such matters. It is reasonably possible, however, that an unfavorable outcome that exceeds the company's current accrual estimate, if any, for one or more of the matters described below could have a material adverse effect on the company's results of operations, financial position and cash flows.

## Product Liability, Workers Compensation and Other Personal Injury Matters

The company is involved in various proceedings and litigation that arise from time to time in connection with product liability, workers compensation and other personal injury matters. The range of probable loss for product liability, workers compensation and other personal injury matters of the company's continuing operations at December 31, 2023, was approximately \$222 million to \$379 million. The company's accrual for these matters totaled \$224 million at December 31, 2023. The accrual includes estimated defense costs and is gross of estimated amounts due from insurers of \$88 million at December 31, 2023 that are included in other assets in the accompanying balance sheet. In addition, as of December 31, 2023, the company had a product liability accrual of \$20 million relating to divested businesses.

Although the company believes that the amounts accrued and estimated recoveries are probable and appropriate based on available information, including actuarial studies of loss estimates, the process of estimating losses and insurance recoveries involves a considerable degree of judgment by management and the ultimate amounts could vary, which could have a material adverse effect on the company's results of operations, financial position, and cash flows. Insurance contracts do not relieve the company of its primary obligation with respect to any losses incurred. The collectability of amounts due from its insurers is subject to the solvency and willingness of the insurer to pay, as well as the legal sufficiency of the insurance claims. Management monitors the payment history as well as the financial condition and ratings of its insurers on an ongoing basis.

## Note 13. Comprehensive Income/(Loss) and Shareholders' Equity

Comprehensive Income (Loss)

Changes in each component of accumulated other comprehensive items, net of tax are as follows:

(In millions)	Currency translation adjustment	Unrealized losses on hedging instruments	Pension and other postretirement benefit liability adjustment	Total
Balance at December 31, 2022	\$ (2,880)	\$ (33)	\$ (186)	\$ (3,099)
Other comprehensive income/(loss) before reclassifications	(69)	_	(69)	(138)
Amounts reclassified from accumulated other comprehensive income/(loss)	8	5	_	13
Net other comprehensive income/(loss)	(61)	5	(69)	(125)
Balance at December 31, 2023	\$ (2,941)	\$ (28)	\$ (255)	\$ (3,224)

Shareholders' Equity

At December 31, 2023, the company had reserved 39 million unissued shares of its common stock for possible issuance under stock-based compensation plans.

Early in the first guarter of 2024, the company repurchased \$3.00 billion of the company's common stock (5.5 million shares).

### Note 14. Fair Value Measurements and Fair Value of Financial Instruments

Fair Value Measurements

The company uses the market approach technique to value its financial instruments and there were no changes in valuation techniques during 2023. The company's financial assets and liabilities carried at fair value are primarily comprised of investments in publicly traded securities, insurance contracts, investments in derivative contracts, mutual funds holding publicly traded securities and other investments in unit trusts held as assets to satisfy outstanding deferred compensation and retirement liabilities; and acquisition-related contingent consideration.

Assets and liabilities carried at fair value are classified and disclosed in one of the following three categories:

Level 1: Quoted market prices in active markets for identical assets or liabilities that the company has the ability to access.

Level 2: Observable market based inputs or unobservable inputs that are corroborated by market data such as quoted prices, interest rates and yield curves.

Level 3: Inputs are unobservable data points that are not corroborated by market data.

The following tables present information about the company's financial assets and liabilities measured at fair value on a recurring basis:

Dasis.							
	Dec	cember 31,	Quoted prices in active markets		Significant other observable inputs		Significant unobservable inputs
(In millions)		2023	(Level 1)		(Level 2)		(Level 3)
Assets							
Cash equivalents	\$	5,021	\$ 5,021	\$	_	\$	_
Bank time deposits		3	3		_		_
Investments		20	20		_		_
Insurance contracts		210	_		210		_
Derivative contracts		8	 		8		
Total assets	\$	5,262	\$ 5,044	\$	218	\$	_
Liabilities							
Derivative contracts	\$	290	\$ _	\$	290	\$	_
Contingent consideration		87					87
Total liabilities	\$	377	\$ _	\$	290	\$	87
	Der		Quoted prices in		Significant other		Significant
(In millions)		cember 31,	active markets		observable inputs		unobservable inputs
Accete		cember 31, 2022					unobservable
Assets Cash equivalents		2022	 markets (Level 1)	<u></u>	inputs (Level 2)		unobservable inputs
Cash equivalents	\$	5,804	\$ (Level 1) 5,804	\$	inputs	\$	unobservable inputs
Cash equivalents Investments	\$	5,804 25	\$ markets (Level 1)	\$	inputs (Level 2) — —	\$	unobservable inputs
Cash equivalents Investments Warrants	\$	5,804 25 12	\$ (Level 1) 5,804	\$	inputs (Level 2)  12	\$	unobservable inputs
Cash equivalents Investments Warrants Insurance contracts	\$	5,804 25 12 162	\$ (Level 1) 5,804	\$	inputs (Level 2)  12 162	\$	unobservable inputs
Cash equivalents Investments Warrants Insurance contracts Derivative contracts	<u> </u>	5,804 25 12 162 79	markets (Level 1) 5,804 25 — —		inputs (Level 2)  12 162 79	_	unobservable inputs
Cash equivalents Investments Warrants Insurance contracts Derivative contracts Total assets	\$	5,804 25 12 162	\$ (Level 1) 5,804	\$	inputs (Level 2)  12 162	\$	unobservable inputs
Cash equivalents Investments Warrants Insurance contracts Derivative contracts Total assets Liabilities	\$	5,804 25 12 162 79 6,082	\$ markets (Level 1) 5,804 25 — —	\$	inputs (Level 2)  12 162 79 253	\$	unobservable inputs
Cash equivalents Investments Warrants Insurance contracts Derivative contracts Total assets Liabilities Derivative contracts	<u> </u>	5,804 25 12 162 79 6,082	markets (Level 1) 5,804 25 — —		inputs (Level 2)  12 162 79	_	unobservable inputs (Level 3)
Cash equivalents Investments Warrants Insurance contracts Derivative contracts Total assets Liabilities	\$	5,804 25 12 162 79 6,082	\$ markets (Level 1) 5,804 25 — —	\$	inputs (Level 2)  12 162 79 253	\$	unobservable inputs (Level 3)

The company uses the Black-Scholes model to value its warrants. The company determines the fair value of its insurance contracts by obtaining the cash surrender value of the contracts from the issuer. The fair value of derivative contracts is the estimated amount that the company would receive/pay upon liquidation of the contracts, taking into account the change in interest rates and currency exchange rates. The company initially measures the fair value of acquisition-related contingent consideration based on amounts expected to be transferred (probability-weighted) discounted to present value. Changes to the fair value of contingent consideration are recorded in selling, general and administrative expense.

The following table provides a rollforward of the fair value, as determined by level 3 inputs (such as likelihood of achieving production or revenue milestones, as well as changes in the fair values of the investments underlying a recapitalization investment portfolio), of the contingent consideration.

(In millions)	2023	2022
Contingent consideration		
Beginning balance	\$ 174	\$ 317
Acquisitions (including assumed balances)	1	(18)
Payments	(63)	(66)
Changes in fair value included in earnings	(25)	(59)
Ending balance	\$ 87	\$ 174

# Derivative Contracts

The following table provides the aggregate notional value of outstanding derivative contracts.

	De	cember 31,	December 31,
(In millions)		2023	2022
Cross-currency interest rate swaps designated as net investment hedge - euro	\$	1,000	\$ 900
Cross-currency interest rate swaps designated as net investment hedge - Japanese yen		4,650	1,200
Cross-currency interest rate swaps designated as net investment hedge - Swiss franc		2,500	_
Currency exchange contracts		1,567	2,434

While certain derivatives are subject to netting arrangements with counterparties, the company does not offset derivative assets and liabilities within the balance sheet. The following tables present the fair value of derivative instruments in the accompanying balance sheets and statements of income.

	 Fair value – assets				Fair value – liabilities			
4	December 31,		December 31,		December 31,		December 31,	
(In millions)	2023		2022		2023		2022	
Derivatives designated as hedging instruments								
Cross-currency interest rate swaps (a)	\$ 5	\$	77	\$	287	\$	85	
Derivatives not designated as hedging instruments								
Currency exchange contracts (b)	3		2		3		16	
Total derivatives	\$ 8	\$	79	\$	290	\$	101	

- (a) The fair value of the cross-currency interest rate swaps is included in the accompanying balance sheet under the caption other assets or
- other long-term liabilities.

  The fair value of the currency exchange contracts is included in the accompanying balance sheet under the captions other current assets or other accrued expenses.

	Gain (los	s) recognized	
(In millions)	2023	2022	2021
Fair value hedging relationships			
Cross-currency interest rate swaps			
Hedged long-term obligations - included in other income/(expense)	\$ <b>-</b> \$	77 \$	_
Derivatives designated as hedging instruments - included in other income/(expense)	_	(81)	_
Interest rate swaps			
Hedged long-term obligations - included in other income/(expense)	_	_	25
Derivatives designated as hedging instruments - included in other income/(expense)	_	_	(3)
Derivatives designated as cash flow hedges			
Interest rate swaps			
Amount reclassified from accumulated other comprehensive items to interest expense	(4)	_	_
Amount reclassified from accumulated other comprehensive items to other income/(expense)	(3)	(3)	(73)
Financial instruments designated as net investment hedges			
Foreign currency-denominated debt and other payables			
Included in currency translation adjustment within other comprehensive items	(356)	695	922
Cross-currency interest rate swaps			
Included in currency translation adjustment within other comprehensive items	(222)	52	71
Included in interest expense	120	19	8
Derivatives not designated as hedging instruments			
Currency exchange contracts			
Included in cost of product revenues	1	6	12
Included in other income/(expense)	(29)	102	162

Gains and losses recognized on currency exchange contracts and the interest rate swaps designated as fair value hedges are included in the accompanying statements of income together with the corresponding, offsetting losses and gains on the underlying hedged transactions.

The company uses foreign currency-denominated debt, certain foreign currency-denominated payables, and cross-currency interest rate swaps to partially hedge its net investments in foreign operations against adverse movements in exchange rates. A portion of the company's euro-denominated senior notes, certain foreign currency-denominated payables, and its cross-currency interest rate swaps have been designated as, and are effective as, economic hedges of part of the net investment in a foreign operation. Accordingly, foreign currency transaction gains or losses due to spot rate fluctuations on the euro-denominated debt instruments and certain foreign currency-denominated payables, and contract fair value changes on the cross-currency interest rate swaps, excluding interest accruals, are included in currency translation adjustment within other comprehensive items and shareholders' equity.

See Note 1 and Note 10 for additional information on the company's risk management objectives and strategies.

# Cash Flow Hedge Arrangements

During 2021, in connection with the extinguishment of debt (Note 10), the company reclassified \$65 million from accumulated other comprehensive income/(loss) to other income/(expense).

#### Fair Value of Other Financial Instruments

The carrying value and fair value of the company's debt instruments are as follows:

	 December 31, 2023				Decembe	r 31,	31, 2022	
	Carrying		Fair		Carrying		Fair	
(In millions)	value		value		value		value	
Senior notes	\$ 34,650	\$	32,191	\$	33,889	\$	29,901	
Commercial paper	_		_		310		310	
Other	 77		77		79		79	
	\$ 34,727	\$	32,268	\$	34,278	\$	30,290	

The fair value of debt instruments, excluding private placement notes, was determined based on quoted market prices and on borrowing rates available to the company at the respective period ends, which represent level 2 measurements. The fair value of private placement notes was determined based on internally developed pricing models and unobservable inputs, which represent level 3 measurements.

# Note 15. Supplemental Cash Flow Information

(In millions)	2023	2022	2021
Cash paid for:	,		
Interest	\$ 1,385	\$ 667	\$ 555
Income taxes	1,482	1,234	2,182
Non-cash investing and financing activities			
Acquired but unpaid property, plant and equipment	296	393	379
Fair value of equity awards exchanged	_	_	43
Fair value of acquisition contingent consideration	_	_	183
Finance lease ROU assets obtained in exchange for new finance lease liabilities	2	33	15
Declared but unpaid dividends	137	119	104
Issuance of stock upon vesting of restricted stock units	234	241	265
Excise tax from stock repurchases	28	_	_

Cash, cash equivalents and restricted cash is included in the consolidated balance sheet as follows:

	D	ecember 31,	December 31,
(In millions)		2023	2022
Cash and cash equivalents	\$	8,077	\$ 8,524
Restricted cash included in other current assets		6	12
Restricted cash included in other assets		14_	1
Cash, cash equivalents and restricted cash	\$	8,097	\$ 8,537

Amounts included in restricted cash primarily represent funds held as collateral for bank guarantees and incoming cash in China awaiting government administrative clearance.

### Note 16. Restructuring and Other Costs

Restructuring and other costs in 2023 primarily included continuing charges for headcount reductions and facility consolidations in an effort to streamline operations, impairment of long-lived assets, and, to a lesser extent, net charges for pre-acquisition litigation and other matters. In 2023, severance actions associated with facility consolidations and cost reduction measures affected approximately 5% of the company's workforce.

Restructuring and other costs in 2022 primarily included impairment of long-lived assets and continuing charges for headcount reductions and facility consolidations in an effort to streamline operations. In 2022, severance actions associated with facility consolidations and cost reduction measures affected less than 2% of the company's workforce.

Restructuring and other costs in 2021 primarily included charges for impairments of an acquired technology asset and a tradename asset, and, to a lesser extent, compensation due to employees at acquired businesses on the date of acquisition. In 2021, severance actions associated with facility consolidations and cost reduction measures affected less than 1% of the company's workforce.

As of February 22, 2024, the company has identified restructuring actions that will result in additional charges of approximately \$70 million, primarily in 2024, and expects to identify additional actions in future periods which will be recorded when specified criteria are met, such as communication of benefit arrangements or when the costs have been incurred.

Restructuring and other costs by segment are as follows:

(In millions)		2023	2022	2021
Life Sciences Solutions		105	\$ 30	\$ 129
Analytical Instruments		33	1	6
Specialty Diagnostics		11	68	18
Laboratory Products and Biopharma Services		295	12	35
Corporate		15	 3	 9
	\$	459	\$ 114	\$ 197

The following table summarizes the changes in the company's accrued restructuring balance. Other amounts reported as restructuring and other costs in the accompanying statement of income have been summarized in the notes to the table. Accrued restructuring costs are included in other accrued expenses in the accompanying balance sheet.

(In millions)	 Total (a)
Balance at December 31, 2020	\$ 21
Net restructuring charges incurred in 2021 (b)	37
Payments	(40)
Currency translation	(1)
Balance at December 31, 2021	17
Net restructuring charges incurred in 2022 (c)	68
Payments	(44)
Balance at December 31, 2022	41
Net restructuring charges incurred in 2023 (d) (e)	194
Payments	(175)
Balance at December 31, 2023	\$ 60

- (a) The movements in the restructuring liability principally consist of severance and other costs associated with facility consolidations.
   (b) Excludes \$160 million of charges, principally \$122 million for impairments of an acquired technology asset and a tradename asset in the Life Sciences Solutions and Laboratory Products and Biopharma Services segments, principally resulting from a reduction in expected cash flows, and \$35 million of charges for compensation contractually due to employees of acquired businesses at the date of acquisition in the Life Sciences Solutions and Laboratory Products and Biopharma Services segments.
- (c) Excludes \$46 million of net charges, primarily charges for impairment of long-lived assets in the Specialty Diagnostic segment.
- (d) Excludes \$264 million of net charges, principally \$ 126 million of charges for impairment of long-lived assets in the Laboratory Products and Biopharma Services and Life Sciences Solutions segments, \$26 million of contract termination costs associated with facility closures in the Laboratory Products and Biopharma Services segment, and \$19 million of net charges for pre-acquisition litigation and other matters in the Laboratory Products and Biopharma Services segment.
- Excludes \$93 million of charges in the Laboratory Products and Biopharma Services segment for impairments of a disposal group that was held for sale beginning in the third quarter of 2023. The loss attributable to Thermo Fisher Scientific Inc. was reduced by \$46 million attributable to a noncontrolling interest.

The company expects to pay accrued restructuring costs primarily through 2024.

### Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

Not applicable.

#### Item 9A. Controls and Procedures

Management's Evaluation of Disclosure Controls and Procedures

The company's management, with the participation of the company's chief executive officer and chief financial officer, has evaluated the effectiveness of the company's disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) as of the end of the period covered by this report. Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives, and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on such evaluation, the company's chief executive officer and chief financial officer concluded that, as of the end of such period, the company's disclosure controls and procedures were effective at the reasonable assurance level.

### Changes in Internal Control over Financial Reporting

There have been no changes in the company's internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) during the fiscal quarter ended December 31, 2023, that have materially affected or are reasonably likely to materially affect the company's internal control over financial reporting.

### Management's Annual Report on Internal Control Over Financial Reporting

The company's management, including the company's chief executive officer and chief financial officer, is responsible for establishing and maintaining adequate internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company. 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. The company's management conducted an assessment of the effectiveness of the company's internal control over financial reporting as of December 31, 2023 based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on this assessment, the company's management concluded that, as of December 31, 2023, the company's internal control over financial reporting was effective.

The company's independent registered public accounting firm, PricewaterhouseCoopers LLP, has audited the effectiveness of the company's internal control over financial reporting as of December 31, 2023, as stated in their report that appears on page 30 of this Annual Report on Form 10-K.

#### Item 9B. Other Information

### Amendment and Restatement of By-Laws

On February 21, 2024, the Board of Directors of the company amended and restated the company's By-Laws, effective immediately, to remove the supermajority voting requirement for amending Article II or Article VI of the By-laws. Specifically, the amendments to the By-laws eliminate Article VI, Section 3 to remove the supermajority voting requirement, and update Article VI, Section 2 to remove the reference to Article VI, Section 3. The foregoing description of the amendments to the By-laws does not purport to be complete and is qualified in its entirety by reference to the full text of the By-laws, as amended and restated, a copy of which is attached as Exhibit 3.4 and incorporated by reference herein.

# Director and Officer Trading Arrangements

On December 13, 2023, Michael A. Boxer, our senior vice president, general counsel, adopted a trading plan intended to satisfy the conditions under Rule 10b5-1(c) of the Exchange Act. Mr. Boxer's plan is for the exercise of vested stock options and the associated sale of up to 20,566 shares of company common stock through December 13, 2024. The foregoing exercises or sales will be made in accordance with the prices and formulas set forth in the plan and such plan terminates on the earlier of the date all the shares under the plan are sold and December 13, 2024.

On December 12, 2023, Lisa P. Britt, our senior vice president, chief human resources officer, adopted a trading plan intended to satisfy the conditions under Rule 10b5-1(c) of the Exchange Act. Ms. Britt's plan is for the exercise of vested stock options and the associated sale of up to 14,345 shares of company common stock through November 11, 2024. The foregoing exercises or sales will be made in accordance with the prices and formulas set forth in the plan and such plan terminates on the earlier of the date all the shares under the plan are sold and November 12, 2024.

On November 10, 2023, Marc N. Casper, our chairman, president and chief executive officer, adopted a trading plan intended to satisfy the conditions under Rule 10b5-1(c) of the Exchange Act. Mr. Casper's plan is for the exercise of vested stock options

and the associated sale of up to 202,150 shares of company common stock through November 1, 2024. The foregoing exercises or sales will be made in accordance with the prices and formulas set forth in the plan and such plan terminates on the earlier of the date all the shares under the plan are sold and November 4, 2024.

## 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 required by this Item will be contained in our Proxy Statement to be filed with the SEC not later than 120 days after the close of business of the fiscal year including under "Corporate governance," and is incorporated in this report by reference.

The information with respect to executive officers required by this Item is included in Item 1 of Part I of this report.

The other information required by this Item will be contained in our Proxy Statement including under "Corporate governance," and is incorporated in this report by reference.

### Item 11. Executive Compensation

The information required by this Item will be contained in our Proxy Statement including under "Corporate governance," and "Executive compensation," and is incorporated in this report by reference.

## Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required by this Item will be contained in our Proxy Statement including under "Information about stock ownership," and is incorporated in this report by reference.

## Item 13. Certain Relationships and Related Transactions, and Director Independence

The information required by this Item will be contained in our Proxy Statement including under "Corporate governance," and is incorporated in this report by reference.

# Item 14. Principal Accountant Fees and Services

The information required by this Item will be contained in our Proxy Statement including under "Audit matters," and is incorporated in this report by reference.

## **PART IV**

### Item 15. Exhibits and Financial Statement Schedules

- (a) The following documents are filed as part of this report:
  - (1) Consolidated Financial Statements (see Index on page 29 of this report)
  - (2) All schedules are omitted because they are not applicable or not required, or because the required information is included either in the consolidated financial statements or in the notes thereto.

# (b) Exhibits

Exhibit Number	Description of Exhibit
2.1	Agreement and Plan of Merger, dated as of April 15, 2021, by and among Thermo Fisher Scientific Inc., Powder Acquisition Corp. and PPD, Inc. (filed as Exhibit 2.1 to the Registrant's Current Report on Form 8-K filed April 16, 2021 [File No. 1-8002] and incorporated in this document by reference).
3.1	Amended and Restated Certificate of Incorporation of the Registrant. (filed as Exhibit 3.1 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2005 [File No. 1-8002] and incorporated in this document by reference).
3.2	Amendment to Thermo Fisher Scientific Inc.'s Third Amended and Restated Certificate of Incorporation (filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed November 14, 2006 [File No. 1-8002] and incorporated in this document by reference).
3.3	Certificate of Elimination of the Series B Junior Participating Preferred Stock of the Company, dated November 13, 2015 (filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed November 16, 2015 [File No. 1-8002] and incorporated in this document by reference).

Exhibit Number	Description of Exhibit
3.4	Amended and Restated By-Laws of the Registrant, as amended and effective as of February 21, 2024
	The Registrant agrees, pursuant to Item 601(b)(4)(iii)(A) of Regulation S-K, to furnish to the Commission, upon request, a copy of each instrument with respect to long-term debt of the Registrant or its consolidated subsidiaries.
4.1	Indenture dated as of November 20, 2009 between the Company and The Bank of New York Mellon Trust Company, N.A. (filed as Exhibit 99.1 to the Registrant's Current Report on Form 8-K filed November 20, 2009 [File No. 1-8002] and incorporated in this document by reference).
4.2	Sixth Supplemental Indenture, dated as of December 11, 2013, between the Company and The Bank of New York Mellon Trust Company, N.A. (filed as Exhibit 99.2 to the Registrant's Current Report on Form 8-K filed December 11, 2013 [File No. 1-8002] and incorporated in this document by reference).
4.3	Eighth Supplemental Indenture, dated as of November 24, 2014, among the Company, The Bank of New York Mellon Trust Company, N.A., as trustee, and The Bank of New York Mellon, London Branch, as paying agent (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed November 24, 2014 [File No. 1-8002] and incorporated in this document by reference).
4.4	Thirteenth Supplemental Indenture, dated as of September 12, 2016, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed September 12, 2016 [File No. 1-8002] and incorporated in this document by reference).
4.5	Fifteenth Supplemental Indenture, dated as of March 16, 2017, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed March 16, 2017 [File No. 1-8002] and incorporated in this document by reference).
4.6	Sixteenth Supplemental Indenture, dated as of July 24, 2017, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed July 24, 2017 [File No. 1-8002] and incorporated in this document by reference).
4.7	Seventeenth Supplemental Indenture, dated as of August 14, 2017, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed August 14, 2017 [File No. 1-8002] and incorporated in this document by reference).
4.8	Eighteenth Supplemental Indenture, dated as of September 30, 2019, between the Company, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed September 30, 2019 [File No. 1-8002] and incorporated in this document by reference).
4.9	Nineteenth Supplemental Indenture, dated as of October 8, 2019, between the Company, and the Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed October 8, 2019 [File No. 1-8002] and incorporated in this document by reference).
4.10	Twenty-First Supplemental Indenture, dated as of April 2, 2020, between the Company, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed April 2, 2020 [File No. 1-8002] and incorporated in this document by reference).
4.11	Twenty-Second Supplemental Indenture, dated as of August 23, 2021, between the Company, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed August 23, 2021 [File No. 1-8002] and incorporated in this document by reference).
4.12	Twenty-Third Supplemental Indenture, dated as of October 22, 2021, between the Company, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed October 22, 2021 [File No. 1-8002] and incorporated in this document by reference).
4.13	Twenty-Fourth Supplemental Indenture, dated as of October 20, 2022, between the Company, as issuer, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed October 20, 2022 [File No. 1-8002] and incorporated in this document by reference).
4.14	Twenty-Fifth Supplemental Indenture, dated as of November 21, 2022, between the Company, as issuer, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed November 21, 2022 [File No. 1-8002] and incorporated in this document by reference).
4.15	Twenty-Sixth Supplemental Indenture, dated as of November 21, 2022, between the Company, as issuer, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.3 to the Registrant's Current Report on Form 8-K filed November 21, 2022 [File No. 1-8002] and incorporated in this document by reference).
4.16	Twenty-Seventh Supplemental Indenture, dated as of August 10, 2023, between the Company, as issuer, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed August 10, 2023 [File No. 1-8002] and incorporated in this document by reference).
4.17	Twenty-Eighth Supplemental Indenture, dated as of December 5, 2023, between the Company, as issuer, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K December 5, 2023 [File No. 1-8002] and incorporated in this document by reference).
4.18	Indenture, dated as of August 9, 2016, among Thermo Fisher Scientific (Finance I) B.V. (Thermo Fisher International), as issuer, the Company, as guarantor, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.1 to the Registrant's Current Report on Form 8-K filed August 9, 2016 [File No. 1-8002] and incorporated in this document by reference).

Number	Description of Exhibit
4.19	Third Supplemental Indenture, dated as of October 18, 2021, among Thermo Fisher International, as issuer, the Company, as quarantor, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed October 18, 2021 [File No. 1-8002] and incorporated in this document by reference).
4.20	Fourth Supplemental Indenture, dated as of November 18, 2021, among Thermo Fisher International, as issuer, the Company, a quarantor, and The Bank of New York Mellon Trust Company, N.A., as trustee (filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed November 18, 2021 [File No. 1-8002] and incorporated in this document by reference).
4.21	<u>Description of the Registrant's Securities</u> (filed as Exhibit 4.19 to the Registrant's Annual Report on Form 10-K for the fiscal year ended December 31, 2022 [File No. 1-8002] and incorporated in this document by reference).
10.1	Thermo Fisher Scientific Inc. Deferred Compensation Plan for Directors of the Registrant, as amended and restated effective February 21, 2024.*
10.2	Thermo Electron Corporation Deferred Compensation Plan, effective November 1, 2001 (filed as Exhibit 10.13 to the Registrant Annual Report on Form 10-K for the fiscal year ended December 29, 2001 [File No. 1-8002] and incorporated in this document by reference).*
10.3	Form of Amended and Restated Indemnification Agreement between the Registrant and its directors and officers (filed as Exhibit 10.2 to the Registrant's Registration Statement on Form S-4 [Reg. No. 333-90661] and incorporated in this document by reference).*
10.4	Summary of Thermo Fisher Scientific Inc. Annual Non-Management Director Compensation (filed as Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed February 24, 2022 [File No. 1-8002] and incorporated in this document by reference).*
10.5	Form of Noncompetition Agreement between the Registrant and certain key employees and executive officers, effective as of January 1, 2009 (filed as Exhibit 10.25 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2009 [File No. 1-8002] and incorporated in this document by reference).*
10.6	Retirement Plan for Non-Employee Directors of Fisher Scientific International Inc. (filed as Exhibit 10.12 to Fisher Scientific International Inc.'s Annual Report on Form 10-K for the year ended December 31, 1992 [File No. 1-10920] and incorporated in this document by reference).*
10.7	First Amendment to the Fisher Scientific International Inc. Retirement Plan for Non-Employee Directors (filed as Exhibit 10.04 to Fisher Scientific International Inc.'s Quarterly Report on Form 10-Q for the quarter ended March 31, 2005 [File No. 1-10920] and incorporated in this document by reference).*
10.8	Amendment to Retirement Plan for Non-Employee Directors of Fisher Scientific International Inc. (filed as Exhibit 10.02 to Fishe Scientific International Inc.'s Current Report on Form 8-K filed March 7, 2006 [File No. 1-10920] and incorporated in this document by reference).*
10.9	Thermo Fisher Scientific Inc. Amended and Restated 2005 Deferred Compensation Plan, effective January 1, 2020 (filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended June 27, 2020 [File No. 1-8002] and incorporated in this document by reference).*
10.10	2009 Restatement of Executive Severance Agreement, between Marc N. Casper and the Registrant, dated November 21, 2009 (filed as Exhibit 10.5 to the Registrant's Current Report on Form 8-K filed November 25, 2009 [File No. 1-8002] and incorporated in this document by reference).*
10.11	Executive Change In Control Retention Agreement, between Marc N. Casper and the Registrant, dated November 21, 2009 (file as Exhibit 10.6 to the Registrant's Current Report on Form 8-K filed November 25, 2009 [File No. 1-8002] and incorporated in this document by reference).*
10.12	Noncompetition Agreement, between Marc N. Casper and the Registrant, dated November 21, 2009 (filed as Exhibit 10.7 to the Registrant's Current Report on Form 8-K filed November 25, 2009 [File No. 1-8002] and incorporated in this document by reference).*
10.13	Amendment No. 1 to 2009 Restatement of Executive Severance Agreement, dated February 25, 2010, between the Registrant and Marc N. Casper (filed as Exhibit 10.2 to the Registrant's Current Report on Form 8-K filed February 25, 2010 [File No. 1-8002] and incorporated in this document by reference).*
10.14	Amendment No. 2 to 2009 Restatement of Executive Severance Agreement, dated November 30, 2010, between the Registrant and Marc N. Casper (filed as Exhibit 10.55 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2010 [File No. 1-8002] and incorporated in this document by reference).*
10.15	Amendment No. 1 to Executive Change In Control Retention Agreement, dated November 30, 2010, between Marc N. Casper and the Registrant (filed as Exhibit 10.56 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2010 [File No. 1-8002] and incorporated in this document by reference).*
10.16	Amendment No. 2 to Executive Change in Control Retention Agreement, dated March 16, 2018, between Marc N. Casper and the Registrant (filed as Exhibit 10.3 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018 [File No. 1-8002] and incorporated in this document by reference).*
10.17	Form of Executive Change in Control Retention Agreement for Officers (other than Marc N. Casper) (filed as Exhibit 10.7 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended April 1, 2023 [File No. 1-8002] and incorporated in this document by reference).*
10.18	Form of Thermo Fisher Scientific Inc.'s Restricted Stock Unit Agreement for Directors (filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended April 2, 2011 [File No. 1-8002] and incorporated in this document by reference).*

Exhibit Number	Description of Exhibit
10.19	Thermo Fisher Scientific Inc. Amended and Restated 2013 Stock Incentive Plan (filed as Exhibit 99.1 to the Registrant's Form S-8 filed on May 24, 2023 [File No. 333-272173] and incorporated in this document by reference).*
10.20	Form of Thermo Fisher Scientific Inc.'s Nonstatutory Stock Option Agreement for Officers (filed as Exhibit 10.44 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2016 [File No. 1-8002] and incorporated in this document by reference).*
10.21	Patheon N.V. 2016 Omnibus Incentive Plan (filed as Exhibit 10.2 to the Current Report on Form 8-K filed by Patheon N.V. on July 26, 2016 [File No. 001-37837] and incorporated in this document by reference).*
10.22	Amendment to Patheon N.V. 2016 Omnibus Incentive Plan, dated March 7, 2017 (filed as Exhibit 4.5 to the Registrant's Registration Statement on Form S-8 filed August 29, 2017 [File No. 1-8002] and incorporated in this document by reference).*
10.23	Amendment to Patheon N.V. 2016 Omnibus Incentive Plan, dated August 23, 2017 (filed as Exhibit 4.6 to the Registrant's Registration Statement on Form S-8 filed August 29, 2017 [File No. 1-8002] and incorporated in this document by reference).*
10.24	Credit Agreement, dated January 7, 2022, among Thermo Fisher Scientific Inc., certain Subsidiaries of Thermo Fisher Scientific Inc. from time to time party thereto, Bank of America, N.A., as Administrative Agent and each lender from time to time party thereto (filed as Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed January 7, 2022 [File No. 1-8002] and incorporated in this document by reference).
10.25	<u>Letter Agreement between the Registrant and Michel Lagarde dated August 28, 2017</u> (filed as Exhibit 10.39 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2019 [File No. 1-8002] and incorporated in this document by reference).*
10.26	Option Agreement Under the Patheon N.V. 2016 Omnibus Incentive Plan between Patheon N.V. and Michel Lagarde dated July 20, 2016 (filed as Exhibit 10.40 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2019 [File No. 1-8002] and incorporated in this document by reference).*
10.27	Option Agreement Under the Patheon N.V. 2016 Omnibus Incentive Plan between Patheon N.V. and Michel Lagarde dated March 23, 2017 (filed as Exhibit 10.42 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2019 [File No. 1-8002] and incorporated in this document by reference).*
10.28	<u>Thermo Fisher Scientific Inc. Executive Severance Policy</u> (filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended June 29, 2019 [File No. 1-8002] and incorporated in this document by reference).*
10.29	Form of Noncompetition Agreement between the Registrant and certain key employees and executive officers (filed as Exhibit 10.2 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended June 29, 2019 [File No. 1-8002] and incorporated in this document by reference).*
10.30	Form of Thermo Fisher Scientific Inc.'s Performance Restricted Stock Unit Agreement effective as of February 25, 2020 (filed as Exhibit 10.45 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2019 [File No. 1-8002] and incorporated in this document by reference).*
10.31	Form of Thermo Fisher Scientific Inc.'s Restricted Stock Unit Agreement effective as of February 25, 2020 (filed as Exhibit 10.46 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2019 [File No. 1-8002] and incorporated in this document by reference).*
10.32	Form of Thermo Fisher Scientific Inc.'s Nonstatutory Stock Option Agreement for Officers effective as of February 25, 2020 (filed as Exhibit 10.47 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2019 [File No. 1-8002] and incorporated in this document by reference).*
10.33	Form of Performance Restricted Stock Unit Agreement between Thermo Fisher Scientific Inc. and Marc N. Casper effective as of February 25, 2020 (filed as Exhibit 10.48 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2019 [File No. 1-8002] and incorporated in this document by reference).*
10.34	Form of Restricted Stock Unit Agreement between Thermo Fisher Scientific Inc. and Marc N. Casper effective as of February 25, 2020 (filed as Exhibit 10.49 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2019 [File No. 1-8002] and incorporated in this document by reference).*
10.35	Form of Nonstatutory Stock Option Agreement between Thermo Fisher Scientific Inc. and Marc N. Casper effective as of February 25, 2020 (filed as Exhibit 10.50 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2019 [File No. 1-8002] and incorporated in this document by reference).*
10.36	Form of Restricted Stock Unit Agreement between Thermo Fisher Scientific Inc. and Marc N. Casper (filed as Exhibit 10.47 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2020 [File No. 1-8002] and incorporated in this document by reference).*
10.37	Form of Performance Restricted Stock Unit Agreement between Thermo Fisher Scientific Inc. and Marc N. Casper (filed as Exhibit 10.48 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2020 [File No. 1-8002] and incorporated in this document by reference).*
10.38	Form of Thermo Fisher Scientific Inc.'s Performance Restricted Stock Unit Agreement (filed as Exhibit 10.49 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2020 [File No. 1-8002] and incorporated in this document by reference).*
10.39	PPD, Inc. 2020 Omnibus Incentive Plan (filed as Exhibit 10.38 to PPD Inc.'s Form S-1/A filed January 27, 2020 [File No. 333-235860] and incorporated in this document by reference).*

Exhibit Number	Description of Exhibit
10.40	Amendment to Nonstatutory Stock Option Agreements between Thermo Fisher Scientific Inc. and Marc N. Casper (filed as Exhibit 10.45 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2022 [File No. 1-8002] and incorporated in this document by reference).*
10.41	Amendment to Restricted Stock Unit Agreements between Thermo Fisher Scientific Inc. and Marc N. Casper (filed as Exhibit 10.46 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2022 [File No. 1-8002] and incorporated in this document by reference).*
10.42	Amendment to Performance Restricted Stock Unit Agreements between Thermo Fisher Scientific Inc. and Marc N. Casper (filed as Exhibit 10.47 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2022 [File No. 1-8002] and incorporated in this document by reference).*
10.43	Form of Thermo Fisher Scientific Inc.'s Nonstatutory Stock Option Agreement effective as of February 22, 2023 (filed as Exhibit 10.3 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended April 1, 2023 [File No. 1-8002] and incorporated in this document by reference).*
10.44	Form of Thermo Fisher Scientific Inc.'s Restricted Stock Unit Agreement (filed as Exhibit 10.2 to the Registrant's Quarterly Report on Form 10-Q for the guarter ended April 1, 2023 [File No. 1-8002] and incorporated in this document by reference).*
10.45	Form of Thermo Fisher Scientific Inc.'s Performance Restricted Stock Unit Agreement (filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended April 1, 2023 [File No. 1-8002] and incorporated in this document by reference).*
10.46	Form of Nonstatutory Stock Option Agreement between Thermo Fisher Scientific Inc. and Marc N. Casper effective as of February 22, 2023 (filed as Exhibit 10.6 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended April 1, 2023 [File No. 1-8002] and incorporated in this document by reference).*
10.47	Form of Restricted Stock Unit Agreement between Thermo Fisher Scientific Inc. and Marc N. Casper (filed as Exhibit 10.5 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended April 1, 2023 [File No. 1-8002] and incorporated in this document by reference).*
10.48	Form of Performance Restricted Stock Unit Agreement between Thermo Fisher Scientific Inc. and Marc N. Casper (filed as Exhibit 10.4 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended April 1, 2023 [File No. 1-8002] and incorporated in this document by reference).*
10.49	Thermo Fisher Scientific Inc. Deferred Compensation Plan, as amended and restated January 1, 2024.*
21	Subsidiaries of the Registrant.
22	Subsidiary Issuer of Guaranteed Securities.
23.1	Consent of PricewaterhouseCoopers LLP, an Independent Registered Public Accounting Firm.
31.1	Certification of Chief Executive Officer required by Exchange Act Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification of Chief Financial Officer required by Exchange Act Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification of Chief Executive Officer required by Exchange Act Rules 13a-14(b) and 15d-14(b), as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.**
32.2	Certification of Chief Financial Officer required by Exchange Act Rules 13a-14(b) and 15d-14(b), as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.**
97	Clawback Policy
101.INS	XBRL Instance Document - the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document.
101.SCH	XBRL Taxonomy Extension Schema Document.
101.CAL	XBRL Taxonomy Calculation Linkbase Document.
101.DEF	XBRL Taxonomy Definition Linkbase Document.
101.LAB	XBRL Taxonomy Label Linkbase Document.
101.PRE	XBRL Taxonomy Presentation Linkbase Document.
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).

 $<sup>{\</sup>rm *Indicates\ management\ contract\ or\ compensatory\ plan,\ contract\ or\ arrangement.}$ 

# Item 16. Form 10-K Summary

None.

<sup>\*\*</sup> Certification is not deemed "filed" for purposes of Section 18 of the Exchange Act or otherwise subject to the liability of that section. Such certification is not deemed to be incorporated by reference into any filing under the Securities Act or the Exchange Act except to the extent that the registrant specifically incorporates it by reference.

# **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.

Date: February 22, 2024 THERMO FISHER SCIENTIFIC INC.

By: /s/ Marc N. Casper

Marc N. Casper

Chairman, President and Chief Executive Officer

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 February 22, 2024.

Ву:	/s/ Marc N. Casper	By:	/s/ Jennifer M. Johnson	
	Marc N. Casper	_	Jennifer M. Johnson	
	Chairman, President and Chief Executive Officer		Director	
	(Principal Executive Officer)			
Ву:	/s/ Stephen Williamson	By:	/s/ R. Alexandra Keith	
	Stephen Williamson	_	R. Alexandra Keith	
	Senior Vice President and Chief Financial Officer		Director	
	(Principal Financial Officer)			
By:	/s/ Joseph R. Holmes	By:	/s/ James C. Mullen	
-	Joseph R. Holmes		James C. Mullen	
	Vice President and Chief Accounting Officer		Director	
	(Principal Accounting Officer)			
By:	/s/ Nelson J. Chai	By:	/s/ Lars R. Sørensen	
	Nelson J. Chai	_	Lars R. Sørensen	
	Director		Director	
By:	/s/ Ruby R. Chandy	By:	/s/ Debora L. Spar	
•	Ruby R. Chandy		Debora L. Spar	
	Director		Director	
Ву: _	/s/ C. Martin Harris	Ву:	/s/ Scott M. Sperling	
	C. Martin Harris	, –	Scott M. Sperling	
	Director		Director	
Ву:	/s/ Tyler E. Jacks	By:	/s/ Dion J. Weisler	
-	Tyler E. Jacks	· <del>-</del>	Dion J. Weisler	
	Director		Director	