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Forward-Looking Statements

This Annual Report on Form 10-K and our other publicly available documents include forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 (Exchange Act), and are subject to the safe harbor created thereby under the Private Securities Litigation Reform Act of 1995. Forward-looking statements include all statements that do not relate solely to historical or current facts, and generally can be identified by the use of words such as "may," "could," "aim," "seek," "believe," "will," "expect," "project," "estimate," "intend," "target," "anticipate," "plan," "continue," or similar expressions or future or conditional verbs.

Forward-looking statements inherently involve many risks and uncertainties that could cause actual results to differ from those expressed in forward-looking statements. Forward-looking statements are based on management's current plans and expectations, expressed in good faith and believed to have a reasonable basis. However, we can give no assurance that any expectation or belief will result or will be achieved or accomplished. Investors therefore should not place undue reliance on forward-looking statements. The following include some but not all of the factors that could cause actual results or events to differ from those anticipated:

- the significant costs and uncertainties in the pharmaceutical research and development process, including with respect to the timing and process of obtaining regulatory approvals;
- the impact and uncertain outcome of acquisitions and business development transactions and related costs;
- intense competition affecting our products, pipeline or industry;
- market uptake of launched products and indications;
- continued pricing pressures and the impact of actions of governmental and private payers affecting pricing of, reimbursement for, and patient access to pharmaceuticals, or reporting obligations related thereto;
- safety or efficacy concerns associated with our products;
- dependence on relatively few products or product classes for a significant percentage of our total revenue and an increasingly consolidated supply chain;
- the expiration of intellectual property protection for certain of our products and competition from generic and biosimilar products, and risks from the proliferation of counterfeit or illegally compounded products;
- our ability to protect and enforce patents and other intellectual property and changes in patent law or regulations related to data package exclusivity;
- information technology system inadequacies, inadequate controls or procedures, security breaches, or operating failures;
- unauthorized access, disclosure, misappropriation, or compromise of confidential information or other data stored in our information technology systems, networks, and facilities, or those of third parties with whom we share our data and violations of data protection laws or regulations;
- issues with product supply and regulatory approvals stemming from manufacturing difficulties, disruptions, or shortages, including as a result of unpredictability and variability in demand, labor shortages, third-party performance, quality, cyber-attacks, or regulatory actions related to our and third-party facilities;
- reliance on third-party relationships and outsourcing arrangements;
- the use of artificial intelligence or other emerging technologies in various facets of our operations may exacerbate competitive, regulatory, litigation, cybersecurity and other risks;
- the impact of global macroeconomic conditions, including uneven economic growth or downturns or uncertainty, trade disruptions, international tension, conflicts, regional dependencies, or other costs, uncertainties and risks related to engaging in business globally;
- devaluations in foreign currency exchange rates or changes in interest rates and inflation;
- litigation, investigations, or other similar proceedings involving past, current, or future products or activities;
- changes in tax law and regulation, tax rates, or events that differ from our assumptions related to tax positions;
- regulatory changes and developments;

- regulatory actions regarding our operations and products;
- regulatory compliance problems or government investigations;
- actual or perceived deviation from environmental-, social-, or governance-related requirements or expectations;
- asset impairments and restructuring charges; and
- changes in accounting and reporting standards.

Investors should also carefully read the factors described under Item 1A, "Risk Factors" in this Annual Report on Form 10-K for a description of certain risks that could, among other things, cause our actual results to differ from those expressed in forward-looking statements. Investors should understand that it is not possible to predict or identify all such factors and should not consider the risks described above and under Item 1A, "Risk Factors" to be a complete statement of all potential risks and uncertainties.

All forward-looking statements speak only as of the date of this Annual Report and are expressly qualified in their entirety by the risk factors and cautionary statements included in this Annual Report. Except as is required by law, we expressly disclaim any obligation to publicly release any revisions to forward-looking statements to reflect events after the date of this Annual Report.

Part I

Item 1. Business

Eli Lilly and Company (referred to as the company, Lilly, we, or us) was incorporated in 1901 in Indiana to succeed to the drug manufacturing business founded in Indianapolis, Indiana, in 1876 by Colonel Eli Lilly. We discover, develop, manufacture, and market products in a single business segment—human pharmaceutical products.

Our purpose is to unite caring with discovery to create medicines that make life better for people around the world. Most of the products that we sell today were discovered or developed by our own scientists, and our long-term success depends on our ability to continually discover or acquire, develop, and commercialize innovative medicines.

We manufacture and distribute our products through facilities in the United States (U.S.), including Puerto Rico, and in Europe and Asia. Our products are sold in approximately 105 countries.

Products

Our products include:

Therapeutic area	Products	Certain Indications
Diabetes, Obesity and Other Cardiometabolic products	<i>Basaglar</i> [®]	In collaboration with Boehringer Ingelheim, a long-acting human insulin analog for the treatment of diabetes.
	<i>Humalog</i> [®] , <i>Humalog Mix 75/25</i> , <i>Humalog U-100</i> , <i>Humalog U-200</i> , <i>Humalog Mix 50/50</i> , <i>insulin lispro</i> , <i>insulin lispro protamine</i> , and <i>insulin lispro mix 75/25</i>	Human insulin analogs for the treatment of diabetes.
	<i>Humulin</i> [®] , <i>Humulin 70/30</i> , <i>Humulin N</i> , <i>Humulin R</i> , and <i>Humulin U-500</i>	Human insulins of recombinant DNA origin for the treatment of diabetes.
	<i>Jardiance</i> [®]	In collaboration with Boehringer Ingelheim, for the treatment of type 2 diabetes; to reduce the risk of cardiovascular death in adult patients with type 2 diabetes and established cardiovascular disease; to reduce the risk of cardiovascular death and hospitalizations for heart failure in adults; and to reduce the risk of sustained decline in estimated glomerular filtration rate (eGFR), end-stage kidney disease, cardiovascular death and hospitalization in adults with chronic kidney disease (CKD) at risk of progression.
	<i>Mounjaro</i> [®]	A glucose-dependent insulinotropic polypeptide and glucagon-like peptide-1 receptor agonist, for the treatment of adults with type 2 diabetes in combination with diet and exercise to improve glycemic control.
	<i>Trulicity</i> [®]	For the treatment of type 2 diabetes in adults and pediatric patients 10 years of age and older; and to reduce the risk of major adverse cardiovascular events in adult patients with type 2 diabetes and established cardiovascular disease or multiple cardiovascular risk factors.
	<i>Zepbound</i> [®]	For the treatment of adults with obesity or overweight with weight-related comorbidities as an adjunct to a reduced-calorie diet and increased physical activity (marketed under Mounjaro in the European Union (EU) and in various other markets outside the U.S.).

Therapeutic area	Products	Certain Indications
Oncology products	<i>Alimta</i> ®	For the first-line treatment, in combination with two other agents, of advanced non-small cell lung cancer (NSCLC) for patients with non-squamous cell histology and no epidermal growth factor receptor or anaplastic lymphoma kinase genomic tumor aberrations; for the first-line treatment, in combination with another agent, of advanced non-squamous NSCLC; for the second-line treatment of advanced non-squamous NSCLC; as monotherapy for the maintenance treatment of advanced non-squamous NSCLC in patients whose disease has not progressed immediately following chemotherapy treatment; and in combination with another agent for the treatment of malignant pleural mesothelioma.
	<i>Cyramza</i> ®	For use as monotherapy or in combination with another agent as a second-line treatment of advanced or metastatic gastric cancer or gastro-esophageal junction adenocarcinoma; in combination with another agent as a second-line treatment of metastatic NSCLC; in combination with another agent as a second-line treatment of metastatic colorectal cancer; as a monotherapy as a second-line treatment of hepatocellular carcinoma; and in combination with another agent as a first-line treatment of adult patients with metastatic NSCLC with activating epidermal growth factor receptor mutations.
	<i>Erbix</i> ®	Indicated both as monotherapy and in combination with another agent for the treatment of certain types of colorectal cancers; and as monotherapy, in combination with chemotherapy, or in combination with radiation therapy for the treatment of certain types of head and neck cancers.
	<i>Jaypirca</i> ®	For the treatment of adult patients with relapsed or refractory mantle cell lymphoma (MCL) after at least two lines of systemic therapy, including a BTK inhibitor; and for the treatment of adult patients with chronic lymphocytic leukemia or small lymphocytic lymphoma who have received at least two prior lines of therapy, including a BTK inhibitor and a BCL-2 inhibitor.
	<i>Retevmo</i> ®	For the treatment of metastatic NSCLC with a rearranged during transfection (RET) gene fusion in adult patients; for the treatment of advanced metastatic medullary thyroid cancer with a RET mutation who require systemic therapy in adult and pediatric patients; for the treatment of advanced or metastatic thyroid cancer with a RET gene fusion in adult and pediatric patients who require systemic therapy and are radioactive iodine-refractory; and for the treatment of adult patients with locally advanced or metastatic solid tumors with a RET gene fusion who have progressed on or following prior systemic treatment or who have no satisfactory alternative treatment options.
	<i>Tyvyt</i> ®	In collaboration with Innovent Biologics, Inc., for the treatment of relapsed or refractory classic Hodgkin's lymphoma; for the first-line treatment of non-squamous NSCLC in combination with Alimta and another agent; for the first-line treatment of squamous NSCLC in combination with two other agents; for the first-line treatment of hepatocellular carcinoma in combination with another agent; for the first-line treatment of esophageal squamous cell carcinoma in combination with certain other agents; for the first-line treatment of gastric cancer in combination with two other agents; and, in combination with two other agents, for patients with epidermal growth factor receptor (EGFR)-mutated non-squamous NSCLC that progressed after EGFR-tyrosine kinase inhibitor therapy, each in China.
	<i>Verzenio</i> ®	For use as monotherapy or in combination with endocrine therapy for the treatment of HR+, HER2- metastatic breast cancer and in combination with endocrine therapy for treatment of HR+, HER2-

Therapeutic area	Products	Certain Indications
Immunology products	<i>Ebglyss</i> ®	For the treatment of adult and adolescent patients 12 years or older with moderate to severe atopic dermatitis in Japan and, in collaboration with Almirall S.A., in Europe.
	<i>Olumiant</i> ®	In collaboration with Incyte Corporation, for the treatment of adults with moderately to severely active rheumatoid arthritis after treatment with one or more tumor necrosis factor (TNF) blockers that did not work well enough or could not be tolerated; moderate to severe atopic dermatitis; severe alopecia areata; and for the treatment of hospitalized adults with COVID-19 who require supplemental oxygen, mechanical ventilation, or extracorporeal membrane oxygenation.
	<i>Omvoh</i> ™	For the treatment of adults with moderately to severely active ulcerative colitis.
	<i>Taltz</i> ®	For the treatment of adults and pediatric patients aged 6 years or older with moderate to severe plaque psoriasis; adults with active psoriatic arthritis; adults with ankylosing spondylitis; and adults with active non-radiographic axial spondyloarthritis.
Neuroscience products	<i>Cymbalta</i> ®	For the treatment of major depressive disorder; diabetic peripheral neuropathic pain; generalized anxiety disorder; fibromyalgia; and chronic musculoskeletal pain due to chronic low back pain or chronic pain due to osteoarthritis.
	<i>Emgality</i> ®	For migraine prevention and the treatment of episodic cluster headache in adults.
Other products and therapies	<i>Cialis</i> ®	For the treatment of erectile dysfunction and benign prostatic hyperplasia.
	<i>Forteo</i> ®	For the treatment of osteoporosis in men and postmenopausal women at high risk for broken bones or fracture and for glucocorticoid-induced osteoporosis in men and women.

Marketing and Distribution

We sell most of our products worldwide. We adapt our marketing methods and product emphasis in various countries to meet local customer needs and comply with local regulations.

U.S.

We promote our major products in the U.S. through sales representatives who engage with physicians and other healthcare professionals. We also educate healthcare providers about our products in various other ways, including promoting in online channels, distributing literature and samples of certain products to physicians, and exhibiting at medical meetings. In addition, we advertise certain products directly to consumers in the U.S., and we maintain websites and other media channels (e.g., social media) with information about our major products. We supplement our employee sales force with contract sales organizations to leverage our resources and reach additional patients in need.

Our account managers service wholesalers, pharmacy benefit managers, managed care organizations, group purchasing organizations, government and long-term care institutions, hospitals, and certain retail pharmacies. We enter into arrangements with these organizations to provide discounts or rebates on our products.

In the U.S., most of our products are distributed through wholesalers that serve pharmacies, physicians and other healthcare professionals, and hospitals. In 2023, 2022, and 2021, three wholesale distributors in the U.S.—McKesson Corporation, Cencora, Inc. (formerly AmerisourceBergen Corporation), and Cardinal Health, Inc.—each accounted for a significant percentage of our consolidated revenue. No other customer accounted for more than 10 percent of our

consolidated revenue in any of these years. For additional information, see Item 8, "Financial Statements and Supplementary Data—Note 2: Revenue."

Outside the U.S.

The products we market and their distribution vary from country to country. Outside the U.S., we promote our products to healthcare providers through sales representatives and other channels. In most countries in which we operate, we maintain our own sales organizations, but in some countries we market our products through third parties, some of which we have engaged through distribution and promotion arrangements.

Marketing Collaborations

Certain of our products are marketed in arrangements with other pharmaceutical companies. For example, we and Boehringer Ingelheim have a global agreement to develop and commercialize a portfolio of diabetes products, including Trajenta[®], Jentadueto[®], Jardiance, Glyxambi[®], Synjardy[®], Trijardy[®] XR, Basaglar, and Rezvoglar[®].

For additional information, see Item 8, "Financial Statements and Supplementary Data—Note 4: Collaborations and Other Arrangements."

Competition

Our products compete globally with many other pharmaceutical products in highly competitive markets.

Important competitive factors include effectiveness, safety, and ease of use; formulary placement, price, payer coverage and reimbursement rates, and demonstrated cost-effectiveness; regulatory approvals; marketing effectiveness; and research and development of new products, processes, modalities, and uses. Early market entry and rapid patient access can also be important to achieve product acceptance and success.

Most new products or uses that we introduce must compete with other branded, biosimilar, or generic products already on the market or that are later developed by competitors. When competitors introduce new products, uses, or delivery systems with therapeutic or cost advantages, including by developing new modalities, our products become subject to decreased sales volumes, progressive price reductions, or both.

We believe our long-term competitive success depends on discovering and developing (either alone or in collaboration with others) or acquiring innovative, cost-effective products that provide improved outcomes for patients and deliver value to payers, and continuously improving the productivity of our operations in a highly competitive environment. There can be no assurance that our efforts will result in commercially successful products, and it is possible that our products will be, or will become, uncompetitive from time to time as a result of products or uses developed by our competitors.

Generic Pharmaceuticals and Biosimilars

Generic pharmaceuticals and biosimilars can pose major competitive challenges to our business. In most major jurisdictions, the regulatory approval process for pharmaceuticals (other than biological products (biologics)) exempts generics from costly and time-consuming clinical trials to demonstrate their safety and efficacy, allowing generic manufacturers to rely on the safety and efficacy of the innovator product. As a result, generic manufacturers generally invest far fewer resources than we do for our branded products in research and development and can price their products significantly lower than our branded products. Accordingly, when a branded non-biologic pharmaceutical loses its market exclusivity, it normally faces intense price competition from generic forms of the product, which can result in the loss of a significant portion of the branded product's revenue in a very short period of time. Moreover, governments in some countries leverage generic entrants to drive price concessions through the utilization of volume-based procurement bidding and other measures.

Further, public and private payers typically encourage the use of generics as alternatives to branded products. Laws in the U.S. generally allow, and in many cases require, pharmacists to substitute generics that have been rated under government procedures to be essentially equivalent to a branded product. Where substitution is mandatory, it must be made unless the prescribing physician expressly forbids it. In certain countries, intellectual property protection is weak, and we must compete with generic versions of our products at or relatively shortly after launch.

In addition, competition for our biologics, which constitute a substantial portion of our products and pipeline, may be affected by the approval of follow-on biologics, also known as biosimilars. A biosimilar is a subsequent version of an approved innovator biologic that, due to its analytical and clinical similarity to the innovator biologic, may be approved based on an abbreviated data package that relies in part on the full testing required of the innovator biologic.

Globally, most governments have developed abbreviated regulatory pathways to approve biosimilars as follow-ons to innovator biologics, including the Biologics Price Competition and Innovation Act of 2009 (the BPCIA) in

the U.S. A number of biosimilars have been licensed under the BPCIA, as well as in Europe and Japan. Regulatory interpretation of important aspects of the laws regulating biosimilars continues to evolve, and therefore the impact of these laws on our business remains subject to substantial uncertainty. For example, the extent to which a biosimilar, once approved, will be substituted for the innovator biologic in a way that is similar to traditional generic substitution for non-biologic products will depend on a number of regulatory and marketplace factors that are still developing.

Biosimilars may present both competitive challenges and opportunities. While competitors have developed biosimilars that compete with our products, we have developed our own biosimilar and may develop others in the future.

U.S. Private Sector Dynamics

In the U.S. private sector, consolidation and integration among healthcare organizations significantly affects the competitive marketplace for pharmaceuticals. Health plans, managed care organizations, pharmacy benefit managers, wholesalers, pharmacies, and other supply chain entities have been consolidating into fewer, larger entities, thus enhancing their market power and importance. Private third-party insurers, as well as governments, typically maintain formularies that specify coverage (the conditions under which drugs are included on a plan's formulary) and reimbursement (the associated out-of-pocket cost to the consumer) to control costs by negotiating discounts or rebates in exchange for formulary inclusion and placement.

Formulary placement can lead to reduced usage of a product for the relevant patient population due to coverage restrictions, such as prior authorizations and formulary exclusions, or due to reimbursement limitations that result in higher consumer out-of-pocket cost, such as non-preferred co-pay tiers, increased co-insurance levels, and higher deductibles. Consequently, pharmaceutical companies face increased pressure in negotiations, and compete fiercely for formulary placement, not only on the basis of product attributes such as efficacy, safety profile, or patient ease of use, but also by providing rebates or other concessions. As payers and pharmaceutical companies continue to negotiate formulary placement and rebates, value-based agreements, where rebates may be based on achievement (or not) of specified outcomes, are another increasingly prevalent tool. Rebates and net cost are increasingly important factors in formulary decisions, particularly in treatment areas in which the payer has taken the position that multiple branded products are therapeutically comparable. These pressures have negatively affected, and could continue to negatively affect, our consolidated results of operations. In addition to formulary placement, changes in insurance designs continue to drive greater consumer cost-sharing through high deductible plans, higher co-insurance, or co-pays, including increased utilization of co-pay accumulator adjustment or maximization programs. Supply chain entities have also increasingly imposed utilization management tools to favor the use of generic products or otherwise limit access to our products. For additional information on pricing and reimbursement for our pharmaceutical products, see "—Regulations and Private Payer Actions Affecting Pharmaceutical Pricing, Reimbursement, and Access—U.S."

Patents, Trademarks, and Other Intellectual Property Rights

Overview

Intellectual property protection is critical to our ability to successfully commercialize our life sciences innovations and invest in the search for new medicines and uses. Loss of effective patent protection for pharmaceuticals, especially for non-biologic products, typically results in the loss of effective market exclusivity for the product, often leading to a severe and rapid decline in revenues for the product. We own, have applied for, or are licensed under, a large number of patents in the U.S. and many other countries relating to products, product uses, formulations, and manufacturing processes. In addition, for some products we have effective intellectual property protection in the form of data protection under pharmaceutical regulatory laws.

The patent protection anticipated to be of most relevance to pharmaceuticals is provided by patents claiming the active ingredient (the compound patent) for our products, particularly those in major markets such as the U.S., major European countries, and Japan. In general, patents in each relevant country last for a period of 20 years from their filing date, which is often years prior to the launch of a commercial product. Further patent term adjustments and restorations may extend the original patent term:

- Patent term adjustment is available to all U.S. patent applicants to provide relief in the event that a patent grant is delayed during examination by the U.S. Patent and Trademark Office (USPTO).
- Patent term restoration for a single patent for a pharmaceutical product is provided to U.S. patent holders to compensate for a portion of the time invested in clinical trials and the U.S. Food and Drug Administration (FDA) review process. There is a five-year cap on any restoration, and no patent's

expiration date may be extended beyond 14 years from FDA approval. Some countries outside the U.S. similarly offer forms of patent term restoration. For example, Supplementary Protection Certificates are available to extend the life of a European patent up to an additional five years (subject to a 15-year cap from European Medicines Agency (EMA) approval) and in Japan patent terms can be extended up to five years.

In some cases, the innovator company may retain exclusivity despite approval of the generic, biosimilar, or other follow-on versions of a new medicine beyond the expiration of the compound patent through market dynamics and challenges, later-expiring patents on manufacturing processes, methods of use or formulations, or data protection that may be available under pharmaceutical regulatory laws. The primary forms of data protection are as follows:

- Data package protection generally prohibits other manufacturers from submitting regulatory applications for marketing approval in reliance on the innovator company's regulatory submission data for the drug. The base period is generally five years in the U.S. (12 years for new biologics under the BPCIA, subject to certain conditions), effectively 10 years in Europe, and eight years in Japan. The period begins on the date of product approval and runs concurrently with the patent term for any relevant patents.
- In the U.S., the FDA has the authority to grant additional data protection for approved drugs where the sponsor conducts specified testing in pediatric populations within a specified time period. If granted, this "pediatric exclusivity" provides an additional six months of exclusivity, which is added to the term of data protection, orphan drug exclusivity and, for products other than biologics, to the term of any relevant and non-expired patents.
- A specific use of a drug or biologic can receive "orphan" designation in the U.S. if it is intended to treat a disease or condition affecting fewer than 200,000 people in the U.S., or where it is not reasonably expected to recover development and marketing costs through U.S. sales. Orphan designation entitles a particular use of the drug to seven years of market exclusivity, which runs in parallel with any applicable patents.

Outside the major markets, the adequacy and effectiveness of intellectual property protection for pharmaceuticals vary widely. International and U.S. free trade agreements like the Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPs Agreement) administered by the World Trade Organization provide global protection of certain intellectual property rights. But in a number of markets we are unable to patent our products or to enforce the patents that we receive for our products. Further, many developing countries, and some developed countries, do not provide effective data package protection even though it is specified in the TRIPs Agreement.

Our Intellectual Property Portfolio

We consider intellectual property protection for certain products, processes, uses, and formulations to be important to our business. In addition to the patents and data protection identified below, we may hold patents on manufacturing processes, formulations, devices, or uses that extend exclusivity beyond the dates shown below. For approved products, dates include, where applicable, pending or granted patent term extensions.

The most relevant patent protection or data protection and associated expiry dates for our major or recently launched patent-protected marketed products are as follows:

Therapeutic Area	Product	Protection	Territory	Expiry Date
Diabetes, Obesity and Cardiometabolic products	Jardiance	compound patent	U.S.*	2028
			major European countries	2029
			Japan	2030
	Mounjaro/Zepbound	compound patent	U.S.	2036
			major European countries	2037
			Japan	2040
		data protection	U.S.	2027
			major European countries	2033
			Japan	2040
	Trulicity	compound patent	U.S.	2027
			major European countries	2029
			Japan	2029
		biologics data protection	U.S.	2027
		data protection	major European countries	2024
			Japan	2023
Oncology products	Cytamza	compound patent	U.S.	2026
			major European countries	2028
			Japan	2026
		biologics data protection	U.S.	2026
		data protection	major European countries	2024
			Japan	2023
	Jaypirca	compound patent	U.S.	2037
			major European countries	2038
		data protection	U.S.	2028
			major European countries	2033
	Retevmo	compound patent	U.S.	2037
			major European countries	2037
			Japan	2038
		data protection	U.S.	2025
			major European countries	2031
			Japan	2031
	Verzenio	compound patent	U.S.	2031
			major European countries	2033

Therapeutic Area	Product	Protection	Territory	Expiry Date
Immunology products	Ebglyss	compound patent	major European countries	2024
			Japan	2024
		data protection	major European countries	2033
			Japan	2034
	Olumiant	compound patent	U.S.	2032
			major European countries	2032
			Japan	2033
		data protection	major European countries	2027
			Japan	2025
	Omveh	compound patent	U.S.	2037
			major European countries	2038
			Japan	2039
		biologics data protection	U.S.	2035
		data protection	major European countries	2033
			Japan	2031
	Taltz	compound patent	U.S.	2030
			major European countries	2031
			Japan	2030
		biologics data protection	U.S.	2028
		data protection	major European countries	2027
			Japan	2024
Neuroscience products	Emgality	compound patent	U.S.	2033
			major European countries	2033
			Japan	2035
		biologics data protection	U.S.	2030
		data protection	major European countries	2028
			Japan	2029
	Reyvow®	compound patent	U.S.	2030
			Japan	2028
		data protection	major European countries	2032
			Japan	2032

* Jardiance and the related combination product, Glyxambi.

The following product candidates are the most relevant that are currently under regulatory review. Upon approval, we expect relevant compound patent and data protections to apply:

- Donanemab has been submitted for regulatory review in the U.S., the EU and Japan for the treatment of early Alzheimer's disease.
- Lebrikizumab has been submitted for regulatory review in the U.S. for the treatment of moderate to severe atopic dermatitis.
- Pirtobrutinib has been submitted for regulatory review in Japan for the treatment of certain patients with relapsed or refractory mantle cell lymphoma.

Worldwide, we sell all of our major products under trademarks consisting of our product names, logos, and unique product appearances that we consider in the aggregate to be important to our operations. Trademark protection varies throughout the world. Trademark protection typically extends beyond the patent and data protection for a product.

We also rely in some circumstances on trade secrets and other unpatented know-how. We seek to protect our confidential information in part through confidentiality agreements with our employees, corporate partners, collaborators, and vendors. These agreements may be breached, and we cannot be certain that we have adequate remedies. If our trade secrets or confidential information become known or are independently discovered by competitors, or if we enter into disputes over ownership of inventions, our business and results of operations could be adversely affected.

Patent Licenses and Collaborations

Some of our products are subject to significant license and collaboration agreements. For information on our license and collaboration agreements, see Item 8, "Financial Statements and Supplementary Data—Note 4: Collaborations and Other Arrangements."

Patent Challenges

In the U.S., the Drug Price Competition and Patent Term Restoration Act of 1984, commonly known as the Hatch-Waxman Act, authorizes the FDA to approve generic versions of innovative pharmaceuticals (other than biologics) when the generic manufacturer files an Abbreviated New Drug Application (ANDA).

Absent a patent challenge, the FDA cannot approve an ANDA until after certain of the innovator's patents expire. However, after the innovator has marketed its product for four years, a generic manufacturer may file an ANDA alleging that the patent(s) listed in the innovator's New Drug Application (NDA) are invalid, unenforceable or not infringed.

Generic manufacturers use this process extensively to challenge patents on innovative pharmaceuticals. In addition, generic companies have shown willingness to launch "at risk," i.e., after receiving ANDA approval but before final resolution of their patent challenge.

Under the BPCIA, the FDA cannot approve an application for a biosimilar product until data protection expires, 12 years after initial marketing approval of the innovator biologic, and an application may not be submitted until four years following the date the innovator biologic was first approved. However, the BPCIA does provide a mechanism for a prospective biosimilar competitor to challenge the validity of an innovator's patents as early as four years after initial marketing approval of the innovator biologic.

The patent litigation scheme under the BPCIA, and the BPCIA itself, is complex and continues to be interpreted and implemented by the FDA, as well as by courts. Courts have held that biosimilar applicants are not required to engage in the BPCIA patent litigation scheme and patent holders retain the right to bring suit under normal patent law procedures if a biosimilar applicant attempts to commercialize a product prior to patent expiration. In addition, there is a procedure in U.S. patent law, known as inter partes review (IPR), which allows any member of the public to file a petition with the USPTO seeking the review of any issued U.S. patent for validity. IPRs are conducted before Administrative Patent Judges in the USPTO using a lower standard of proof than used in federal district court and challenged patents are not accorded the presumption of validity. Generic drug companies and even some investment firms have engaged in the IPR process in attempts to invalidate our patents. In addition, in December 2023, the U.S. presidential administration released a proposed framework that would permit the federal government to consider the price of a drug developed using federal funds as a factor in determining whether it may exercise "march-in rights" and license it to a third party to manufacture. A comment period on the proposal runs through February 6, 2024, and we are not able to predict whether a final rule will be adopted in accordance with the proposed framework.

Outside the U.S., the legal doctrines and processes by which pharmaceutical patents can be challenged vary widely. In recent years, we have experienced an increase in patent challenges from generic manufacturers in many countries outside the U.S.

For more information on patent challenges and litigation involving our intellectual property rights, see Item 1A, "Risk Factors—Risks Related to Our Business—Our long-term success depends on intellectual property protection; if our intellectual property rights are invalidated, circumvented, or weakened, our business will be adversely affected." and Item 8, "Financial Statements and Supplementary Data—Note 16: Contingencies."

Government Regulation of Our Operations

Our operations are regulated extensively by numerous government agencies.

Regulation of Products

The lengthy process of laboratory and clinical testing, data analysis, manufacturing development, and regulatory review necessary for governmental approvals of our products is extremely costly and can significantly delay product introductions and revenue generation. In addition, our operations are subject to complex federal, state, local, and foreign laws and regulations concerning relationships with healthcare providers and suppliers, pricing and reimbursement for our products, the environment, occupational health and safety, data privacy and security, and other matters. Evolving regulatory priorities have intensified governmental scrutiny of our operations and those of other healthcare intermediaries, including with respect to current Good Manufacturing Practices (cGMP), quality assurance, and similar regulations. Regulatory oversight of the pharmaceutical industry entails judgment and interpretation, which can result in inconsistent administration of laws and regulations by health authorities. Compliance with the laws and regulations affecting the manufacture and sale of current products and the discovery, development, and introduction of new products and uses has and will continue to require substantial effort, expense, and capital investment.

Of particular importance to our business is regulation by the FDA in the U.S. Pursuant to laws and regulations that include the Federal Food, Drug, and Cosmetic Act (FDCA), the FDA has jurisdiction over all of our products and devices in the U.S. and administers requirements covering the testing, safety, effectiveness, manufacturing, quality control, distribution, labeling, marketing, promotion, advertising, dissemination of information, and post-marketing surveillance of those products and devices. The FDA holds broad discretion under the FDCA and other statutes to interpret the conditions and evidence necessary for timely approval of our drugs and devices.

Following approval, our products remain subject to regulation by various government and regulatory agencies in connection with labeling, import, export, sale, storage, recordkeeping, advertising, promotion, and safety reporting. We conduct extensive post-marketing surveillance of the safety of the products we sell and comply with notification requirements related to safety and efficacy, product supply, and other aspects of our products and operations. The FDA may withdraw approval of a product if compliance with regulatory requirements and standards is not maintained or if problems occur after a product reaches the market, including as may be identified through market surveillance or third-party studies involving our products. The FDA may also mandate labeling changes to products at any point in a product's life cycle based on new safety information or as part of a labeling change to a particular class of products. In addition, the FDA strictly regulates marketing, labeling, advertising, and promotion of products to prescribers and patients. Pharmaceutical products may be promoted only for approved indications and in accordance with the provisions of the approved label. The FDA and other agencies actively enforce the laws and regulations prohibiting the promotion of off-label uses.

Outside the U.S., our products and operations are subject to similar regulatory requirements, notably by the EMA in Europe, the Ministry of Health, Labor and Welfare in Japan, and the National Medical Products Administration in China. Specific regulatory requirements vary from country to country. Regulatory and compliance requirements, as well as approval processes outside the U.S., may differ from those in the U.S. and may involve additional costs, uncertainties, and risks.

The FDA and other regulatory agencies outside the U.S. extensively regulate all aspects of manufacturing quality for pharmaceuticals under their cGMP regulations. Regulators assess compliance with these regulations by inspecting the equipment, facilities, laboratories, and processes used in the manufacturing and testing of our products prior to marketing approval with periodic reinspection thereafter; this may include inspection of our third-party business partners. We make substantial investments of capital and operating expenses to implement comprehensive, company-wide quality systems and controls in our manufacturing, product development, and process development operations in an effort to maintain sustained compliance with cGMP and other regulations. Nonetheless, manufacturing quality and other aspects of pharmaceutical regulatory compliance is heavily scrutinized and results in government investigations, regulatory and legal actions, product recalls and seizures, fines and penalties, interruption of production leading to product shortages, import bans or denials of import certifications, delays or denials in new product approvals or line extensions or supplemental approvals of current products pending resolution of any issues, any of which have and could adversely affect our business and reputation. Certain of our products, devices and components are manufactured by third parties, and their failure to comply with these regulations has and could in the future adversely affect us, including through failure to supply product to us or delays in approvals of new products or indications. For example, in 2023 we received complete response letters based on FDA observations made during inspections of

manufacturing facilities rather than any issues related to efficacy or safety. These resulted in certain delays in the approval of new products.

Any determination by the FDA or other regulatory authorities of manufacturing or other deficiencies could adversely affect our business and reputation. For more information on product regulation challenges, see Item 1A, "Risk Factors—Risks Related to Our Operations—Reliance on third-party relationships and outsourcing arrangements could adversely affect our business."

Emergency Use Authorizations

The Secretary of Health and Human Services may issue an Emergency Use Authorization (EUA) to authorize unapproved medical products, or unapproved uses of approved medical products, to be manufactured, marketed, and sold in the context of an actual or potential emergency that has been designated by the government. For example, certain of our products were previously made available for the treatment of COVID-19 under respective EUAs. An EUA terminates when the emergency determination underlying the EUA terminates, and EUAs can be revoked under other circumstances, the timing of which may occur unexpectedly or be difficult to predict.

Outside the U.S., the emergency use of medical products is subject to regulatory processes and requirements that vary and differ from those in the U.S.

Other Laws and Regulations

The marketing, promotional, and pricing practices of pharmaceutical manufacturers, as well as the manner in which manufacturers interact with purchasers, prescribers, and patients, are subject to various other U.S. federal and state laws, as well as analogous foreign laws and regulations, including the federal anti-kickback statute, the False Claims Act, antitrust laws, and state laws governing kickbacks, false claims, unfair trade practices, and consumer protection. These laws are administered by, among others, the Department of Justice, the Office of Inspector General of the U.S. Department of Health and Human Services (HHS), the Federal Trade Commission, the Office of Personnel Management, and state attorneys general. State, federal, and foreign governments, agencies, and other regulatory bodies are active in their oversight, enforcement activities, and coordination with respect to pharmaceutical companies, which has resulted in intensified scrutiny, litigation costs, corporate criminal sanctions, and substantial civil settlements in the pharmaceutical industry.

The U.S. Foreign Corrupt Practices Act of 1977 (FCPA) prohibits certain individuals and entities, including U.S. publicly traded companies, from promising, offering, or giving anything of value to foreign officials with the corrupt intent of influencing the foreign official for the purpose of helping the company obtain or retain business or gain any improper advantage. The FCPA also imposes specific recordkeeping and internal controls requirements on U.S. publicly traded companies. As noted above, our business is heavily regulated and therefore involves significant interaction with officials outside the U.S. Additionally, in many countries outside the U.S., healthcare providers who prescribe pharmaceuticals are employed by the government and purchasers of pharmaceuticals are government entities; therefore, our interactions with these prescribers and purchasers are subject to regulation under the FCPA.

In addition to the U.S. application and enforcement of the FCPA, the various jurisdictions in which we operate and supply our products have laws and regulations aimed at preventing and penalizing corrupt and anticompetitive behavior. In recent years, several jurisdictions have enhanced their laws and regulations in this area, increased their enforcement activities, and/or increased the level of cross-border coordination and information sharing.

We are, and could in the future become, subject to administrative and legal proceedings and actions, which could include claims for civil penalties (including treble damages), criminal sanctions, and administrative remedies, including exclusion from U.S. federal and other healthcare programs. It is possible that an adverse outcome in future actions could have a material adverse impact on our consolidated results of operations, liquidity, and financial position in any given period.

We are also subject to a variety of federal, state, local, and foreign environmental, health and safety, and other laws and regulations that may affect our research, development, or production efforts.

Regulations and Private Payer Actions Affecting Pharmaceutical Pricing, Reimbursement, and Access

U.S.

There continues to be considerable public and government scrutiny of pharmaceutical pricing. In addition, U.S. government actions to reduce federal spending on entitlement programs, including Medicare and Medicaid, may affect payment for our products or services associated with the provision of our products.

In August 2022, the U.S. government enacted the Inflation Reduction Act of 2022 (IRA). Among other measures, the IRA requires HHS to effectively set prices for certain single-source drugs and biologics reimbursed under Medicare Part B and Part D. Generally, these government prices apply nine years (for medicines approved under an NDA) or thirteen years (for medicines approved under a Biologics License Application (BLA)) following initial FDA approval and will be set at a price that is likely to represent a significant discount from existing average prices to wholesalers and direct purchasers. While the law specifies a ceiling price, it does not set a minimum or floor price. In August 2023, HHS selected Jardiance, which is part of our collaboration with Boehringer Ingelheim, as one of the first ten medicines subject to government-set prices effective in 2026. Given our product portfolio, we expect additional significant products will be selected in future years, which would have the effect of accelerating revenue erosion prior to expiry of exclusivities. The effect of reducing prices and reimbursement for certain of our products would significantly impact our business and consolidated results of operations.

Other IRA provisions require drug manufacturers to provide rebates for Medicare Part B and Part D medicines under certain circumstances. Also, the Part D benefit redesign will replace the Part D Coverage Gap Discount Program (CGDP) with a new manufacturer discount program. Beginning in January 2025, the 70 percent CGDP discount will be replaced by a 10 percent manufacturer discount for all Medicare Part D beneficiaries that have met their deductible and incurred out of pocket drug costs below a \$2,000 threshold and a 20 percent discount for beneficiaries that have incurred out of pocket drug costs above the \$2,000 threshold under the Part D benefit redesign. Manufacturers that fail to comply with the IRA may be subject to various penalties, including civil monetary penalties, which could be significant.

The IRA has and will meaningfully influence our business strategies and those of our competitors. In particular, the nine-year timeline to set prices for medicines approved under an NDA reduces the attractiveness of investment in small molecule innovation. The IRA can cause changes to development approach, and timing and investments at-risk. The full impact of the IRA on our business and the pharmaceutical industry, including the implications to us of a competitor's product being selected for price setting, remains uncertain.

Heightened governmental scrutiny over the manner in which drug manufacturers price their marketed products and the practices of pharmacy benefit managers and other supply chain entities has also resulted in several U.S. Congressional inquiries and proposed and enacted federal and state legislation designed to, among other things, bring more transparency to product pricing, review the relationship between pricing and manufacturer patient programs, require advance notice of list price increases, establish upper payment limits or other restrictions by drug affordability review boards, allow the importation of drugs from other countries, address pharmacy benefit manager practices, and reform government program reimbursement methodologies for drug products. Restrictive or unfavorable pricing, coverage, or reimbursement determinations for our medicines or product candidates by governments, regulatory agencies, courts, or private payers could also adversely impact our business and financial results. Additional policies, regulations, legislation, or enforcement, including those proposed or pursued by the U.S. Congress, the U.S. executive branch and regulatory authorities worldwide, could intensify these efforts and adversely impact our business and consolidated results of operations.

In the U.S., we are required to provide rebates to the federal government and state governments on their purchases of our pharmaceuticals under various federal and state healthcare programs, including state Medicaid and Medicaid Managed Care programs (a minimum of 23.1 percent plus adjustments for price increases above the consumer price index over time) and discounts to private entities who treat patients in certain types of healthcare facilities intended to serve low-income and uninsured patients (known as 340B covered entities). Additionally, an annual fee is imposed on pharmaceutical manufacturers and importers that sell branded prescription drugs to specified government programs.

Changes to the 340B program or the Medicaid programs could have a material adverse impact on our business. For example, continued expansion of the 340B program and growth of entities claiming entitlement to 340B pricing, including in ways that may be inconsistent with the statutory scheme, impacts our revenue on an increasing percentage of sales. Changes to the calculation of rebates under the Medicaid program could also increase our Medicaid rebate obligations and decrease the prices charged to 340B covered entities.

We have implemented a Contract Pharmacy Limited Distribution System applicable to sales through the 340B program, which generally limits distribution of 340B-priced product to: (i) covered entities and their child sites; (ii) contract pharmacies wholly owned by the covered entity; or (iii) if a covered entity lacks an in-house outpatient pharmacy, a single contract pharmacy designated by a covered entity to establish a 340B bill to/ship to arrangement. Our Contract Pharmacy Limited Distribution System contains certain exceptions that permit broader contract pharmacy usage, including for "penny priced" insulin products, provided that the covered entity passes through all discounts to eligible patients at the point of sale and meets other conditions. We believe our Contract Pharmacy Limited Distribution System complies with the 340B statute, but it remains subject to ongoing inquiries and litigation that could have a material impact on our business, as discussed in Item 8, "Financial Statements and Supplementary Data—Note 16: Contingencies." Other aspects of the 340B program, including the proper definitions of "patient" and "child site" under the 340B statute, are also subject to ongoing litigation by other parties, the resolution of which could impact the growth and scope of the 340B program.

Rebates are also negotiated in the private sector. We pay rebates to private payers that provide prescription drug benefits to seniors covered by Medicare and to private payers that provide prescription drug benefits to their customers. These rebates are affected by the introduction of competitive products and generics in the same class. Our approach to the rebates we offer to private payers that provide prescription drug benefits to seniors covered by Medicare may be impacted by the 2020 regulatory amendments to the anti-kickback statute's discount safe harbor, which have been stayed until at least January 1, 2032.

For a discussion of risks related to how we price our products, see Item 1A, "Risk Factors—Risks Related to Our Business—We face litigation and investigations related to our products, how we price or commercialize our products, and other aspects of our business, which could adversely affect our business, and we are self-insured for such matters."

Outside the U.S.

Globally, public and private payers are increasingly restricting access to pharmaceuticals based on assessments of comparative effectiveness and value, including through the establishment of formal health technology assessment processes. In addition, third-party organizations, including professional associations, academic institutions, and non-profit entities associated with payers, conduct and publish comparative effectiveness and cost/benefit analyses on medicines, the impact of which can influence pharmaceutical access and pricing.

In most international markets, we operate in an environment of government-mandated cost-containment programs, which may include price controls, international reference pricing (to other countries' prices), discounts and rebates, therapeutic reference pricing (to other, often generic, pharmaceutical choices), regulatory hurdles, restrictions on physician prescription levels, and mandatory generic substitution. In these markets, healthcare services and the determination of pricing and reimbursement for pharmaceutical products are impacted by government control at the point of care or as the primary payer.

The European Commission published its draft General Pharmaceutical Legislation in April 2023. While certain elements in the European Commission draft could expedite regulatory timelines, we anticipate that the overall market and patient impact would be negative if the legislation is approved as drafted. Implementation timing is unknown at this time. Health care cost containment remains a focus in the EU, among other jurisdictions. Most countries in the EU attempt to contain drug costs by engaging in some form of reference pricing in which authorities examine pre-determined internal or external markets for published prices of a product or national class of drugs. Member states also have the power to restrict the range of pharmaceutical products for which their national health insurance systems provide reimbursement and may condition access on agreement of a reimbursement price or completion of cost-effectiveness or other gating studies.

In Japan, our products generally are subject to government-mandated annual price reductions. The government may also order re-pricings for specific products or classes of products if certain criteria are met, including exceeding product use thresholds.

China has introduced and implemented reforms to accelerate access to innovative products and reduce costs. To drive patient access, we seek inclusion of many of our branded products on China's National Reimbursement Drug List, a list of drugs fully or partially reimbursed by China's national basic health insurance. In exchange for broad access, these products are generally subject to negotiation of significant price concessions. China also utilizes a value-based procurement program process for products that have generic substitutes. Products that we choose to tender through this process are similarly subject to price reductions. Our performance in China may be significantly impacted by the

country's evolving pharmaceutical regulatory environment, including access, intellectual property protection, regulatory enforcement and compliance, and trade policies.

Governments in many emerging markets are also focused on limiting health care costs and have enacted price controls and measures impacting intellectual property. Reforms in our product markets, including those that may stem from periods of uneven economic growth or downturns or uncertainty, or as a result of high inflation, emergence, or escalation of, and responses to, international tension and conflicts, or government budgeting priorities, may continue to result in added pressure on pricing and reimbursement for our products.

We cannot predict the extent to which our business may be affected by current or potential future legislative, regulatory, or payer developments. However, in general we expect to see continued focus on regulating pricing, resulting in additional state, federal, and international legislative and regulatory developments that could have further negative effects on pricing and reimbursement for our products as well as overall operations.

See Item 7, "Management's Discussion and Analysis—Executive Overview—Other Matters—Trends Affecting Pharmaceutical Pricing, Reimbursement, and Access" for additional information regarding recent legislative, administrative, and other pricing initiatives and their impact on our results.

Research and Development

Our commitment to research and development dates back more than 140 years. We invest heavily in research and development because we believe it is critical to our long-term competitiveness. At the end of 2023, we employed approximately 10,000 people in pharmaceutical research and development activities, including a substantial number of physicians, scientists holding graduate or postgraduate degrees, and highly skilled technical personnel.

Our internal pharmaceutical research focuses primarily on the areas of metabolism (including diabetes, obesity and cardiovascular), immunology, neuroscience, and oncology. In addition to discovering and developing new medicines, we seek to expand the value of existing products through new uses, formulations, and therapeutic approaches, including complementary delivery devices or diagnostic tools, that can provide additional value to patients.

To supplement our internal efforts, we collaborate with others, including academic institutions and research-based pharmaceutical and biotechnology companies. We use the services of physicians, hospitals, medical schools, and other research organizations worldwide to conduct clinical trials to establish the safety and effectiveness of our medicines. We also invest in external research and technologies that we believe complement and strengthen our own efforts. These investments can take many forms, including, among others, licensing arrangements, co-development agreements, co-promotion arrangements, joint ventures, acquisitions, and equity investments.

Pharmaceutical development is time-consuming, expensive, and risky. Very few of the candidates discovered by researchers ultimately become approved medicines. The process from discovery to regulatory approval can take over a decade. Candidates can fail at any stage of the process, and even late-stage candidates sometimes fail to receive regulatory approval or achieve commercial success. In addition, novel modalities can present more challenging or lengthy development timelines. The following describes in more detail the research and development process for pharmaceutical products:

Phases of New Drug Development

- **Discovery Phase**

In the discovery phase, scientists identify, design, and synthesize promising candidates by analyzing their effect on biological targets thought to play a role in disease. Targets are often unproven and only candidates that have the desired effect on the target and meet other design criteria move to the next phase of development, which includes the initiation of studies in animals to support regulatory and safety requirements for clinical research in humans. The discovery phase can take years and the probability of any one candidate becoming a medicine is extremely low.

- **Early Development Phase**

Early development includes initial testing for safety and efficacy and early analyses of manufacturing requirements. Safety testing is initially performed in laboratory tests and animals, as necessary. In general, the first human tests (often referred to as Phase I) are conducted in small groups of subjects to assess safety and evaluate the potential dosing range. Subsequently, larger populations of patients are studied (Phase II) to identify signs of efficacy while continuing to assess safety. In parallel, scientists work to identify safe, effective, and economical manufacturing processes. Long-term animal studies continue to test for potential safety issues. Of the candidates that enter the early development phase, approximately 10 percent move to the late development phase. The early development phase varies but can take several years to complete.

- **Late Development Phase**

Late phase development projects (typically Phase III) have met initial safety requirements and shown initial evidence of efficacy in earlier studies. As a result, these candidates generally have a higher likelihood of success and trials include larger patient populations to demonstrate safety and efficacy in the disease. These studies are designed to demonstrate the benefit and risk of the potential new medicine and may be compared to competitive therapies, placebo, or both. Phase III studies are generally conducted globally, are costly, and are designed to support regulatory filings for marketing approval. The duration of Phase III testing varies by disease and may take years.

- **Submission Phase**

Once a potential new medicine is submitted to regulatory agencies, the time to final marketing approval can vary from several months to several years, depending on the disease state, the strength and complexity of available data, the degree of unmet need, and the time required for the regulatory agency(ies) to evaluate the submission, which can depend on prioritization by regulators and other factors. There is no guarantee that a potential medicine will receive marketing approval, or that decisions on marketing approvals or indications will be consistent across geographic areas.

See Item 7, "Management's Discussion and Analysis—Executive Overview—Late-Stage Pipeline," for more information on our late-stage product candidates.

Raw Materials and Product Supply

Most of the principal materials we use in our manufacturing operations are available from more than one source. However, certain raw or intermediate materials are procured from a single source. We seek to maintain sufficient inventory to provide reliability of production and manage unforeseen supply variability. However, various developments have led, and may in the future lead, to interruption or shortages in supply until we establish new sources, implement alternative processes, bring new manufacturing facilities online, or pause or discontinue product sales in one or more markets.

The majority of our revenue comes from products produced predominantly in our own facilities. Our principal active ingredient manufacturing occurs at sites we own in the U.S., including Puerto Rico, and Ireland. Finishing operations, including formulation, filling, assembling, delivery device manufacturing, and packaging, take place at a number of sites throughout the world. To support anticipated demand for our current and prospective products, we have undertaken significant manufacturing expansion initiatives. During 2023, commercial production commenced at our Research Triangle Park manufacturing site in Durham, North Carolina. Further investments to increase our manufacturing capacity include planned sites in Concord, North Carolina, Limerick, Ireland, Alzey, Rhineland-Palatinate, Germany, and two in Lebanon, Indiana. We also utilize and are expanding arrangements with third parties for certain active ingredient manufacturing, filling, finishing operations, and for device or component production and assembly.

We manage our supply chain (including our own facilities, contracted arrangements, and inventory) in a way that is intended to allow us to meet product demand while maintaining flexibility to reallocate manufacturing capacity to improve efficiency and respond to changes in supply and demand. To maintain supply of our products, we use a variety of techniques, including comprehensive quality systems, inventory management, and back-up sites.

However, pharmaceutical production processes are complex, highly regulated, and vary widely from product to product. Shifting or adding manufacturing capacity is a very lengthy process requiring significant capital expenditures, process modifications, and regulatory approvals. Accordingly, developments such as unanticipated demand, unplanned plant shutdowns, manufacturing or quality assurance difficulties at one of our facilities or contracted facilities, failure or refusal of a supplier or contract manufacturer to supply contracted quantities, increases in demand on a supplier, or difficulties in predicting or variability in demand for our products and those of our competitors have led, and may in the future lead, to interruption or higher costs in the supply of certain products, product shortages, or pauses or discontinuations of product sales in one or more markets. For example, we have experienced challenges in meeting strong demand for our incretin products in recent periods, partially due to the limited availability of competitor therapies, and expect tight supply to persist while additional manufacturing capacity is operationalized. Further, cost and wage inflation, availability of adequate capacity in global transportation, supply chain complexities, including consolidation therein, labor market issues, international tension and conflicts, uneven economic growth or downturns, an increase in overall demand in our industry for certain products and materials, and public health outbreaks, epidemics, or pandemics, such as the COVID-19 pandemic, have caused, and in the future may cause, delays or disruptions in and/or increased costs related to distribution of our medicines, the construction or acquisition of manufacturing capacity, procurement activity, and supplier or contract manufacturer arrangements, as well as other general business impacts. For more information on the additional risks we face in connection with any difficulties, disruptions, and shortages in the manufacturing, distribution, and sale of our products, see Item 1A, "Risk Factors—Risks Related to Our Business—Manufacturing, quality, or supply chain difficulties, disruptions, or shortages could lead to product supply problems."

Quality Assurance

Our success depends in great measure on customer confidence in the quality of our products and in the integrity of the data that support their safety and effectiveness. Product quality requires a total commitment to quality in all parts of our operations, including research and development, purchasing, facilities planning, manufacturing, distribution, and dissemination of information about our medicines.

Quality of production processes involves strict control of ingredients, equipment, facilities, manufacturing methods, packaging materials, and labeling. We perform tests at various stages of production processes and on the final product in an effort to ensure that the product meets all applicable regulatory requirements and our internal standards. These tests may involve chemical and physical chemical analyses, microbiological testing, testing in animals, or a combination thereof. Additional assurance of quality is provided by quality assurance groups that audit and monitor all aspects of quality related to pharmaceutical manufacturing procedures and systems in company operations and at third-party suppliers.

Executive Officers of the Company

The following table sets forth certain information regarding our current executive officers.

The term of office for each executive officer expires on the date of the annual meeting of the board of directors, to be held on May 6, 2024 in connection with the company's annual meeting of shareholders, or on the date his or her successor is chosen and qualified. No director or executive officer has a "family relationship" with any other director or executive officer of the company, as that term is defined for purposes of this disclosure requirement. There is no understanding between any executive officer or director and any other person pursuant to which the executive officer was selected.

Name	Age	Titles and Business Experience
David Ricks	56	Chair, President, and Chief Executive Officer (CEO) (since 2017). Previously, Mr. Ricks held various leadership roles with Lilly, including senior vice president and president, Lilly Bio-Medicines. Mr. Ricks has 27 years of service with Lilly.
Anat Ashkenazi	51	Executive Vice President and Chief Financial Officer (since 2021). Previously, Ms. Ashkenazi held various leadership roles with Lilly, including senior vice president, controller and chief financial officer, Lilly Research Laboratories, and vice president, finance and chief financial officer, Lilly Diabetes and Lilly global manufacturing and quality. Ms. Ashkenazi has 22 years of service with Lilly.
Eric Dozier	57	Executive Vice President, Human Resources and Diversity (since 2022). Previously, Mr. Dozier held various leadership roles with Lilly, including senior vice president, chief commercial officer for Loxo@Lilly, and vice president, global ethics and compliance officer. Mr. Dozier has 26 years of service with Lilly.
Anat Hakim	54	Executive Vice President, General Counsel and Secretary (since 2020). Prior to joining Lilly, Ms. Hakim was senior vice president, general counsel and secretary of WellCare Health Plans, Inc. (WellCare) from 2016 to 2018, and executive vice president, general counsel and secretary of WellCare from 2018 to 2020. Prior to joining WellCare, she served as divisional vice president and associate general counsel of intellectual property litigation at Abbott Laboratories from 2010 to 2013 and divisional vice president and associate general counsel of litigation from 2013 to 2016. Ms. Hakim has four years of service with Lilly.
Edgardo Hernandez	49	Executive Vice President and President, Manufacturing Operations (since 2021). Previously, Mr. Hernandez held various leadership roles with Lilly, including senior vice president, global parenteral drug product, delivery devices and regional manufacturing, and vice president, Fegersheim operations. Mr. Hernandez has 19 years of service with Lilly.
Patrik Jonsson	57	Executive Vice President and President, Lilly Diabetes and Obesity and President, Lilly USA (since 2024). Mr. Jonsson has held various leadership roles with Lilly, including, most recently, as Executive Vice President and President, Lilly Immunology and Lilly USA, and Chief Customer Officer. Previously, he served as senior vice president and president, Lilly Bio-Medicines and president and general manager, Lilly Japan. Mr. Jonsson has 33 years of service with Lilly.
Johna Norton	57	Executive Vice President, Global Quality (since 2017). Previously, Ms. Norton held various leadership roles with Lilly, including vice president, global quality assurance API manufacturing and product research and development. Ms. Norton has 33 years of service with Lilly.
Diogo Rau	49	Executive Vice President and Chief Information and Digital Officer (since 2021). Prior to joining Lilly, Mr. Rau was senior director of information systems and technology for retail and online stores of Apple Inc. from 2011 to 2021. Prior to his tenure at Apple, he served as a partner at McKinsey & Company. Mr. Rau has three years of service with Lilly.
Daniel Skovronsky, M.D., Ph.D.	50	Executive Vice President, Chief Scientific Officer and President, Lilly Research Laboratories and Lilly Immunology (since 2024). Prior to assuming his current role, Dr. Skovronsky served as Executive Vice President, Chief Scientific and Medical Officer, and President, Lilly Research Laboratories since 2018. Dr. Skovronsky has held other leadership roles with Lilly, including as senior vice president, clinical and product development and vice president, diabetes research. Dr. Skovronsky has 13 years of service with Lilly.
Jacob Van Naarden	39	Executive Vice President and President, Loxo@Lilly (since 2021). Previously, Mr. Van Naarden served as chief executive officer-Loxo Oncology at Lilly, and chief operating officer-Loxo Oncology at Lilly. Mr. Van Naarden joined Lilly in 2019 when the company acquired Loxo Oncology, Inc., where he was the chief operating officer. In previous roles, Mr. Van Naarden worked in various biotechnology investing, operating, and advisory capacities, including positions with HealthCor Management, Aisling Capital, and Goldman Sachs. Mr. Van Naarden has five years of service with Lilly.
Alonzo Weems	53	Executive Vice President, Enterprise Risk Management, and Chief Ethics and Compliance Officer (since 2021). Previously, Mr. Weems held various leadership roles with Lilly, including vice president and deputy general counsel for corporate legal functions, general counsel for Lilly USA, and general counsel for biomedicines and diabetes. Mr. Weems has 26 years of service with Lilly.
Anne White	55	Executive Vice President and President, Lilly Neuroscience (since 2021). Previously, Ms. White held various leadership roles with Lilly, including senior vice president and president, Lilly Oncology, vice president of Portfolio Management, Chorus, and Next Generation Research and Development. Ms. White has 28 years of service with Lilly.
		Executive Vice President and President, Lilly International (since 2021). Previously, Mr. Yuffa held various leadership roles with Lilly, including senior vice president and president, Lilly Bio-Medicines, vice

Human Capital Management

Our core values—integrity, excellence, and respect for people—shape our approach to attracting, retaining, engaging, and developing a diverse and highly skilled and ethical workforce, which is critical to executing our strategy. We believe the strength of our workforce significantly contributes to our financial performance and enables us to make life better for people around the world. For instance, most of the products we sell today were discovered or developed by our own scientists, and our long-term success depends on our ability to continually discover or acquire, develop, and commercialize innovative medicines. We believe that fostering a positive culture that values the contributions of our talented colleagues helps drive our success.

We are committed to creating a safe, supportive, ethical, and rewarding work environment through strategic focus on our human capital management process, fairness and nondiscrimination in our employment practices, robust training and development opportunities, and competitive pay and benefits. We believe our dedication to promoting diversity, equity, and inclusion within our company reflects our values and is a key driver of business success and growth.

We regularly conduct confidential employee surveys to seek feedback from our workforce on a variety of topics. These results are reviewed and analyzed by our leaders to identify opportunities to adjust our policies and benefits to improve our employees' experience. As a result of our efforts, we believe that we have a highly performing, cohesive workforce and that our employee relations are good.

At the end of 2023, we employed approximately 43,000 people, including approximately 23,000 employees outside the U.S. Our employees include approximately 10,000 people engaged in research and development activities.

Strategy and Oversight

We are committed to fairness and nondiscrimination in our employment practices, and we deeply value diverse backgrounds, skills, and global perspectives. Because dedication to human capital management is also a core component of our corporate governance, our board of directors regularly engages with management and facilitates a system of reporting designed to monitor human capital management initiatives and progress as part of the overarching framework that guides how we attract, retain, engage, and develop a workforce that aligns with our values and mission.

Across all levels of our workforce, from the end of 2019 through the end of 2023, we have seen positive changes in representation for minority group members (MGM) in the United States and women globally. In addition, 4 of 13 current members (approximately 31 percent) of our executive committee (which includes our CEO) are women and 3 are MGMs. In addition, as of the filing of this Annual Report on Form 10-K, the company's 12-member board of directors includes five women and five members who are MGMs.

Our recruitment strategy focuses on opportunities to expand our pool of candidates to reach more candidates across a variety of dimensions, including but not limited to race, religion, sexual orientation, gender identity, national origin, veteran status, disability status, education, and experience. We also strive to provide a diverse panel of interviewers for open positions. We believe that recruiting in this way helps ensure that everyone will have an equal opportunity to advance their careers.

We offer training to enable our employees to perform their duties in our highly regulated industry. We also strive to cultivate a culture that promotes ongoing learning by encouraging employees to seek further education and growth experiences, helping them build rewarding careers. We have implemented development tools and resources for all employees, improved our talent programs and processes to provide broader access to information, and increased transparency regarding career development and advancement at Lilly.

Employee Health and Safety

We strive to foster a healthy, vibrant work environment, which includes keeping our employees safe. We seek to create a companywide culture where best-in-class safety practices are consistently followed. To do this, we assess and continuously attempt to improve our companywide safety performance to promote the well-being of employees and to help safeguard communities where we operate. We believe a holistic approach and dedication to safety helps us be our best as we deliver on our company purpose to improve lives around the world.

Information Available on Our Website

Our company website is www.lilly.com. None of the information accessible on or through our website is incorporated into this Annual Report on Form 10-K. We make available through the website, free of charge, our company filings with the Securities and Exchange Commission (SEC) as soon as reasonably practicable after we electronically file them with, or furnish them to, the SEC. These include our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, proxy statements, registration statements, and any amendments to those documents. The link to our SEC filings is investor.lilly.com/financial-information/sec-filings.

Paper copies of the company's Annual Report on Form 10-K and Quarterly Reports on Form 10-Q that are filed with the SEC are available without charge upon written request to:

ELI LILLY AND COMPANY
c/o General Counsel and Secretary
Lilly Corporate Center
Indianapolis, Indiana 46285

In addition, the "Governance" section of our website includes our corporate governance guidelines, board of directors and committee information (including committee charters), and our articles of incorporation and bylaws. The link to our corporate governance information is lilly.com/leadership/governance.

We routinely post important information for investors in the "Investors" section of our website, www.lilly.com. We may use our website as a means of disclosing material, non-public information and for complying with our disclosure obligations under Regulation FD. Accordingly, investors should monitor the "Investors" section of our website, in addition to following our press releases, filings with the SEC, public conference calls, presentations, and webcasts. We may also use social media channels to communicate with investors and the public about our business, products and other matters, and those communications could be deemed to be material information. The information contained on, or that may be accessed through, our website or social media channels, is not incorporated by reference into, and is not a part of, this Annual Report on Form 10-K.

Item 1A. Risk Factors

In addition to the other information contained in this Annual Report on Form 10-K, the following risk factors should be considered carefully in evaluating our company. It is possible that our business, financial condition, liquidity, cash flows, results of operations, reputation, and prospects could be materially adversely affected by any of these risks. Additional risks and uncertainties not presently known to us or that we currently believe to be immaterial could also adversely affect our business, financial condition, liquidity, cash flows, results of operations, reputation, and prospects.

Risks Related to Our Business and Industry

- **Pharmaceutical research and development is very costly and highly uncertain; we may not succeed in developing, licensing, or acquiring commercially successful products sufficient in number or value to replace revenues of products that have lost or will lose intellectual property protection or are displaced by competing products or therapies.**

There are many difficulties and uncertainties inherent in pharmaceutical research and development, the introduction of new products and indications, business development activities to enhance or refine our product pipeline, and commercialization of our products.

There is a high rate of failure inherent in drug discovery and development. To bring a product from the discovery phase to market takes considerable time and entails significant cost. Failure can occur at any point in the process, including in later stages after substantial investment. As a result, most funds invested in research and development programs will not generate financial returns. New product candidates that appear promising in development or prior to being acquired may fail to reach the market or may have only limited commercial success because of efficacy or safety concerns, inability to obtain or maintain necessary regulatory approvals or payer reimbursement or coverage, failure to obtain placement on guidelines or recommendations published by third-party organizations that are commensurate with clinical data, the application of pricing controls, limited scope of approved uses, label changes, changes in the relevant treatment standards or the availability of newer, better, or more cost-effective competitive products, difficulty or excessive costs to manufacture, insufficient infrastructure to support detection, diagnostic or other requisites for treatment, ineffectiveness in reaching healthcare professionals, including digitally given the increase in virtual engagements, or infringement of the patents or intellectual property rights of others. We may also fail to allocate research and development resources efficiently, fail to pursue or invest sufficiently in product candidates or indications that may have been successful, or fail to optimally balance trial design, conduct, and speed to accomplish desired outcomes.

Regulatory agencies establish high hurdles for the efficacy and safety of new products and indications. Delay, uncertainty, unpredictability, and inconsistency in drug approval processes across markets and agencies can result in delays in product launches, lost market opportunities, impairment of inventories, and other negative impacts. In addition, it can be very difficult to predict revenue growth rates of, or variability in demand for, new products and indications, which in some cases leads to difficulty meeting product demand or, on the other hand, excess inventory and related financial charges.

We cannot state with certainty when or whether our products and indications now under development will be approved or launched; whether, if initially granted, such approval will be maintained; whether we will be able to develop, license, or otherwise acquire additional product candidates, indications or products; or whether our products and indications, once launched, will be commercially successful.

Through internal innovation and business development we must maintain a continuous flow of successful new products and indications or line extensions sufficient both to cover our substantial research and development costs and investments and to replace revenues that are lost as profitable products become subject to pricing controls, lose intellectual property exclusivity, or are displaced by competing products or therapies. Failure to timely replenish our product portfolio and pipeline would have a material adverse effect on our business, results of operations, cash flows, and financial position. Our dependence on, or focus in, one or more key products or product classes may exacerbate this risk. In addition, the growth of our business and revenue base increases the risk that products developed or acquired by us may not provide adequate value to sustain further long-term growth.

We engage in various forms of business development activities to enhance or refine our product pipeline, including licensing arrangements, co-development agreements, co-promotion arrangements, distribution and promotion agreements, joint ventures, acquisitions, equity investments, and divestitures. There are

substantial risks associated with identifying successful business development targets and consummating related transactions. Increased focus on business combinations in our industry, including by the Federal Trade Commission and competition authorities in Europe and other jurisdictions, and heightened competition for attractive targets has and could continue to delay, jeopardize, or increase the costs of our business development activities. In addition, failures or difficulties in integrating or retaining new personnel or the operations of the businesses, products, or assets we acquire (including related technology, commercial operations, compliance programs, information security, manufacturing, distribution, and general business operations and procedures) may affect our ability to realize the expected benefits of business development transactions and may result in our incurrence of substantial asset impairment or restructuring charges. We also may fail to generate the expected revenue and pipeline enhancement from business development activities due to limited diligence opportunities, unsuccessful clinical trials, issues related to the quality, integrity, or broad applicability of data, regulatory impediments, and manufacturing or commercialization challenges. Additionally, business development activity focused on new modalities may entail additional risks and costs. Accordingly, business development transactions may not be completed in a timely manner (if at all), may not result in successful development outcomes or successful commercialization of any product, may give rise to legal proceedings or regulatory scrutiny, and may result in charges that negatively impact our financial position or results of operations in any given period.

See Item 1, "Business—Research and Development—Phases of New Drug Development" and Item 7, "Management's Discussion and Analysis—Executive Overview—Late-Stage Pipeline," for more details about our current product pipeline.

- **We and our products face intense competition from multinational pharmaceutical companies, biotechnology companies, and lower-cost generic and biosimilar manufacturers, and such competition could have a material adverse effect on our business.**

We compete with a large number of multinational pharmaceutical companies, biotechnology companies, and generic pharmaceutical companies and, in many cases, our products compete against the leading products of one or more of our competitors. To compete successfully, we must continue to deliver to the market innovative, cost-effective products through internal innovation or business development that meet important medical needs, provide improved outcomes for patients, and deliver value to payers. Our product revenues and prospects are adversely affected by the introduction by competitors of branded products that are first to market, have better marketplace access, have greater brand recognition or are perceived as superior by the marketplace, by generic or biosimilar versions of our branded products, and by generic or biosimilar versions of other products in the same therapeutic class as our branded products. Our revenues are also adversely affected by treatment innovations, including new or superior modalities, that eliminate or minimize the need for treatment with our drugs.

Regulation of generic and biosimilar products varies around the world and such regulation is complex and subject to ongoing interpretation and implementation by regulatory agencies and courts. Particularly for biosimilars, health authority guidelines and legislative actions could make it less burdensome for competitor products to enter the market and further incentivize uptake of biosimilars. Given the importance to us of marketed biologic products and those in our clinical-stage pipeline, such regulation could have a material adverse effect on our business. See Item 1, "Business—Competition" and "Business—Research and Development," for more details. Alternatively, actual or perceived failure of robust generic and biosimilar competition could propel governments to adopt additional policies and legislation that threaten our intellectual property, pricing of our products, or other aspects of our business.

In addition, we rely on our ability to attract, engage, and retain highly qualified and skilled scientific, technical, management, and other personnel in order to compete effectively. To continue to commercialize our products, and advance the research, development, and commercialization of additional modalities, indications, and product candidates, we have expanded, and will likely need to further expand, our workforce, including in the areas of manufacturing, clinical trials management, regulatory affairs, and sales and marketing, both in and outside the U.S. We continue to face intense competition for qualified individuals from numerous multinational pharmaceutical companies, biotechnology companies, academic and other research institutions, as well as employers near our manufacturing and other facilities, which has and may continue to increase our labor costs. Our ability to attract and retain talent in our increasingly competitive environment is further complicated by evolving employment trends. Our failure to compete effectively for talent could negatively affect sales of our current and any future approved products and indications, and could result in material financial, legal, commercial, or reputational harm to our business.

- **Our business is subject to increasing government price controls and other public and private restrictions on pricing, reimbursement, and access for our drugs, which could have a material adverse effect on our results of operations, reputation or business.**

Public and private payers continue to take aggressive steps to control their expenditures for pharmaceuticals by placing restrictions on pricing and reimbursement for, and patient access to, our medicines. These pressures have negatively affected, and could continue to negatively affect, our consolidated results of operations. Governments and private payers worldwide have intensified their scrutiny of, and actions intended to address, pricing, reimbursement, and access to pharmaceutical products and are demanding greater commercial and clinical value from pharmaceutical companies in the form of strong product differentiation and demonstrated value. We have experienced increased scrutiny on the pricing of current and potential diabetes, obesity, and Alzheimer's products due to payer concern over projected growth in these markets and, for certain of these drugs, the anticipated duration of treatment. We have also observed scrutiny of pricing and access disparities across jurisdictions.

Additional policies, regulations, legislation, or enforcement, including because of the regulatory priorities of the U.S. presidential administration and regulatory authorities worldwide, could adversely impact our business and consolidated results of operations. For example, in August 2023, HHS selected Jardiance, which is part of our collaboration with Boehringer Ingelheim, as one of the first ten medicines subject to government-set prices effective in 2026. Given our product portfolio, we expect additional significant products will be selected in future years, which would have the effect of accelerating revenue erosion prior to exclusivity expiry. The effect of reducing prices and reimbursement for certain of our products would significantly impact our business and consolidated results of operations. Within the U.S., state level transparency initiatives, importation rules, reporting requirements, and mandated programs, including the establishment of drug affordability boards with the power to set upper payment limits on certain drugs in state-regulated plans, have also increased administrative costs, in some cases, compromised confidential business practices and otherwise detrimentally impacted our business. Certain states have also undertaken efforts to codify 340B contract pharmacies into statute which would increase the cost of 340B programs. For more details, see Item 1, "Business—Regulations and Private Payer Actions Affecting Pharmaceutical Pricing, Reimbursement, and Access."

Further, restrictive or unfavorable pricing, coverage, or reimbursement determinations for our medicines or product candidates by governments, regulatory agencies, courts, or private payers, including in relation to the implementation of the IRA, reference pricing, and compulsory licensing, may adversely impact our business and financial results. We continue to experience additional pricing pressures, rebates, clawbacks, and other changes in reimbursement policies and programs resulting from the financial strain of the COVID-19 pandemic, periods of uneven economic growth or downturns or uncertainty, and the emergence or escalation of, and responses to, international tension and conflicts.

In addition, government price reporting and payment regulations are complex, and require ongoing assessment of the methods by which we calculate and report pricing. Calculation methodologies are inherently subjective and are subject to review and challenge by government agencies. If agencies disagree with our calculations, or the methodologies and assumptions underlying them, we may need to restate previously reported data and could be subject to financial and legal liability, which may be significant. In addition, changes to calculation methodologies could adversely affect our financial position or consolidated results of operations in any given period.

For more details, see Item 1, "Business—Regulations and Private Payer Actions Affecting Pharmaceutical Pricing, Reimbursement, and Access," Item 7, "Management's Discussion and Analysis—Executive Overview—Other Matters—Trends Affecting Pharmaceutical Pricing, Reimbursement, and Access," and Item 8, "Financial Statements and Supplementary Data—Note 16: Contingencies."

- **Pharmaceutical products can develop safety or efficacy concerns, which could have a material adverse effect on our revenues, income, and reputation.**

Pharmaceutical products receive regulatory approval based on data obtained in controlled clinical trials of fixed duration and defined populations. After approval and launch, the products are used for longer periods of time by much larger numbers of patients, which may lead to identifying new safety or efficacy concerns. We and others (including regulatory agencies and private payers) collect extensive information on the efficacy and safety of our marketed products by continuously monitoring the use of our products in the marketplace. In addition, we or others (including our competitors, in some cases) may conduct post-marketing clinical studies on efficacy and safety of our marketed products. New safety or efficacy data

from both market surveillance and post-marketing clinical studies of our products or those of our competitors may result in product label changes, or other measures that could reduce the product's market acceptance and result in declining sales. Relatedly, safety or efficacy concerns raised about a product in the same class or with the same mechanism of action as one of our products or product candidates could be imputed and have an adverse impact on the availability or commercial viability of our products or approval of product candidates. Serious safety or efficacy issues that arise after product approval have, and could in the future, result in voluntary or mandatory product recalls or withdrawals from the market. Safety issues have, and could in the future, result in costly product liability claims. Any of these outcomes could result in material financial, legal, commercial, or reputational harm to our business.

- **We derive a significant percentage of our total revenue from relatively few products and sell our products through increasingly consolidated supply chain entities, which may subject us to, or exacerbate, various risks.**

We derived direct product and/or alliance revenues of more than \$2 billion for each of Trulicity, Mounjaro, Verzenio, Taltz and Jardiance (including Glyxambi, Synjardy, and Trijardy XR) that collectively accounted for 63 percent of our total revenues in 2023. In particular, Trulicity and Mounjaro accounted for 36 percent of our total revenues in 2023 and we expect products with GLP-1 receptor agonist activity, including the recently launched Zepbound, to represent a significant and growing portion of our business, revenues, and prospects. Loss of patent protection, changes in prescription rates, material product liability or pricing litigation, unexpected side effects or safety concerns, significant changes in demand, regulatory proceedings and investigations, negative publicity affecting doctor or patient confidence, pressure from existing or new competitive products, counterfeit and illegally compounded drugs, changes in labeling, pricing, and insufficient access, or supply shortages or disruptions for these products or any of our other major products could materially impact our results of operations.

In addition, in the U.S., most of our products are distributed through wholesalers and if one of these significant wholesalers should encounter financial or other difficulties, it might decrease the amount of business the wholesaler does with us or we might be unable to timely collect the amounts that the wholesaler owes us, which could negatively impact our results of operations. See Item 1, "Business—Marketing and Distribution," for more details. Challenges to U.S. retail pharmacies due to pharmacy benefit manager reimbursement pressures, among other things, have resulted in financial difficulties for some pharmacies that may impact patient experiences, lead to determinations by certain pharmacies to not carry one or more of our significant products or threaten the viability of these pharmacies, which could negatively impact our business and results of operations.

Moreover, the negotiating power of health plans, managed care organizations, pharmacy benefit managers, and other supply chain entities has increased due to consolidation, regulatory, and other market impacts, and they, along with governments, increasingly employ formularies to control costs and encourage utilization of certain drugs, including through the use of formulary inclusion, or favorable formulary placement. Such stakeholders have also increasingly imposed utilization management tools to favor the use of generic products or otherwise limit access to our products. As these practices expand, including due to potential further consolidation of U.S. private third-party payers, we may face difficulty in obtaining or maintaining timely or adequate pricing or formulary placement of our products. We expect that consolidation of supply chain entities will continue to increase competitive and pricing pressures on pharmaceutical manufacturers.

Pharmacy benefit manager practices have come under increased scrutiny from U.S. policymakers at the federal and state level who have proposed legislation intended to address concerns regarding the impact that these intermediaries have on drug pricing and patients' out of pocket costs. If promulgated, such legislation could have resultant implications, costs, or consequences for our business and how we interact with these entities. For additional information on pricing and reimbursement for our pharmaceutical products, see Item 1, "Business—U.S. Private Sector Dynamics" and "Regulations and Private Payer Actions Affecting Pharmaceutical Pricing, Reimbursement, and Access—U.S."

Risks Related to Our Intellectual Property

- **We depend on products with intellectual property protection for most of our revenues, cash flows, and earnings; the loss of effective intellectual property protection for certain of our products has resulted, and in the future is likely to continue to result, in rapid and severe declines in revenues for those products.**

In the ordinary course of their lifecycles, our products lose significant patent protection and/or data protection in the U.S., as well as in key jurisdictions outside the U.S., after a specified period of time. Some products also lose patent protection as a result of successful third-party challenges. We have faced, and remain exposed to, generic competition following the expiration or loss of such intellectual property protection.

For non-biologic products, loss of exclusivity (whether by expiration of legal rights or by termination thereof as a consequence of litigation) typically results in the entry of one or more generic competitors, leading to a rapid and severe decline in revenues, especially in the U.S. Generic pharmaceutical companies have in some cases introduced a generic product before resolution of any related patent litigation. For biologics, loss of exclusivity may or may not result in the near-term entry of competitor versions (i.e., biosimilars) due to many factors, including development timelines, manufacturing challenges, and/or uncertainties regarding the regulatory approval pathways.

There is no assurance that the patents we are seeking will be granted or that the patents we hold will be found valid and enforceable if challenged. Moreover, patents relating to particular products, uses, formulations, or processes do not preclude other manufacturers from employing alternative processes or marketing alternative products or formulations that compete with our patented products. Patents held by third-parties have also contributed, and may in the future contribute, to a decision by us to not pursue all potential indications for a product candidate. In addition, competitors or other third parties may assert claims that our activities infringe patents or other intellectual property rights held by them, or allege a third-party right of ownership in our existing intellectual property. See Item 7, "Management's Discussion and Analysis—Executive Overview—Other Matters—Patent Matters," and Item 1, "Business—Patents, Trademarks, and Other Intellectual Property Rights," for more details.

Patents relating to pharmaceutical products are often obtained early in the development process. Given the limited duration of patent and data protection, the speed with which we develop products, complete clinical testing, receive regulatory approval, supply commercial product to the market, and obtain public and private payer access are important factors in recouping our development costs and generating financial returns, particularly given regulatory and market dynamics that have and may continue to put pressure on pricing, exclusivity periods, and competition. Delays in achieving these milestones in some cases limits our ability to capitalize on the innovative medicines that we develop or acquire.

- **Our long-term success depends on intellectual property protection; if our intellectual property rights are invalidated, circumvented, or weakened, our business will be adversely affected.**

Our long-term success depends on our ability to continually discover or acquire, develop, and commercialize innovative medicines. Without strong intellectual property protection, we would be unable to generate the returns necessary to support our significant investments in research and development, as well as the other expenditures required to bring new drugs and indications to the market. Intellectual property protection varies throughout the world and is subject to change over time, depending on local laws and regulations. Changes to such laws, regulations, and enforcement practices could reduce protections for our innovative products and indications. For example, a proposal by the European Commission to revise the EU's general pharmaceutical legislation threatens the predictability and length of certain pharmaceutical intellectual property incentives, including by a two-year reduction of data package protection. Changes proposed by the USPTO and by certain bills in Congress to limit the number of, and differences between, patents obtained could also affect the scope of patent protection for our products in the U.S.

In addition, in December 2023, the U.S. presidential administration released a proposed framework that would permit the federal government to consider the price of a drug developed using federal funds as a factor in determining whether it may exercise "march-in rights" and license it to a third party to manufacture. A comment period on the proposal runs through February 6, 2024, and we are not able to predict whether a final rule will be adopted in accordance with the proposed framework.

Also in the U.S., in addition to the process for challenging patents set forth in the BPCIA, which applies to biologic products, the Hatch-Waxman Act provides generic companies substantial incentives to seek to invalidate our patents covering small molecule pharmaceutical products. As a result, we expect that our U.S. patents on major pharmaceutical products, including biologics, will continue to be routinely challenged in litigation and may not be upheld. In addition, a separate IPR process currently allows competitors to seek invalidation of patents at the USPTO without the protections of the BPCIA or Hatch-Waxman Act. The use of IPR proceedings after the institution of litigation pursuant to the BPCIA or Hatch-Waxman Act is currently a topic of debate among legislators and the future ability of our competitors to use IPR proceedings as an alternative to Hatch-Waxman Act or BPCIA litigation procedures to challenge our patents remains uncertain. The USPTO issued an interim procedure regarding the use of discretionary denials of IPR proceedings when there is parallel district court litigation. However, it is not clear how this interim procedure could affect the ability of our competitors to institute IPR proceedings after institution of litigation. If our patents are challenged through this expedited review process, even if we prevail in demonstrating the validity of our patent, our win provides limited precedential value at the PTAB and no precedential value in federal district court, meaning the same patent can be challenged by other competitors.

We face many generic manufacturer challenges to our patents outside the U.S. as well. The entry of generic competitors typically results in rapid and severe declines in revenues. In addition, competitors or other third parties may claim that our activities infringe patents or other intellectual property rights held by them. If successful, such claims could result in our being unable to market a product in a particular territory or being required to pay significant damages for past infringement or royalties on future sales. In addition, intellectual property protection in certain jurisdictions outside the U.S. is weak and we face heightened risks to our intellectual property rights in these jurisdictions, including competition with generic or counterfeit versions of our products at or relatively shortly after launch. See Item 1, "Business—Patents, Trademarks, and Other Intellectual Property Rights," and Item 8, "Financial Statements and Supplementary Data—Note 16: Contingencies," for more details.

We also face challenges from the distribution of counterfeit and illegally compounded versions of our genuine drugs, including as related to our products with GLP-1 receptor agonist activity. Counterfeits, and in some cases illegally compounded drugs, fraudulently claim to be, or claim to contain, genuine branded medicines. Counterfeit and illegally compounded drugs may not have the same safety, quality, and effectiveness as approved drugs, and may pose serious health risks to patients. Our reputation and business could suffer harm from counterfeit or illegally compounded drugs and our actions to stop or prevent illegal sales of such drugs may be costly or ineffective.

Risks Related to Our Operations

- **Failure, inadequacy, breach of, or unauthorized access to, our IT systems or those of our third-party service providers, unauthorized access to our confidential information, or violations of data protection laws, could each result in material harm to our business and reputation.**

Important confidential information owned by us, our business partners, or other third parties is stored in our information systems, networks, and facilities or those of third parties. This includes valuable trade secrets and intellectual property, clinical trial information, corporate strategic plans, marketing plans, customer information, and personally identifiable information, such as employee and patient information (collectively, confidential information). We also rely, to a large extent, on the efficient and uninterrupted operation of complex information technology systems, infrastructure, cloud technologies, and hardware (together, IT systems), some of which are within our control and some of which are within the control of third parties, to accumulate, process, store, and transmit large amounts of confidential information and other data. We are subject to a variety of evolving and developing laws and regulations around the world related to privacy, data protection, and data security. Maintaining the security, confidentiality, integrity, and availability of our IT systems and confidential information is vital to our business. Our failure, or the failure of our third-party service providers, to protect and maintain the security, confidentiality, integrity, and availability of our (or their) IT systems and confidential information and other data could significantly harm our reputation as well as result in significant costs, including those related to fines, penalties, litigation, and obligations to comply with applicable data breach laws.

IT systems are inherently vulnerable to system inadequacies, inadequate controls or procedures, operating failures, unauthorized access, service interruptions or failures, security breaches, malicious intrusions, theft, exfiltration, ransomware, or cyber-attacks from a variety of sources, which may remain

undetected for significant periods of time. From time to time, we update, transition, acquire, or expand use of our and third-party IT systems, which may result in heightened vulnerability. Some third-party IT systems that are necessary for the operation of our business processes are maintained outside of our control but would impact business operations if compromised as a result of a cyber-attack. In February 2024, we completed the implementation of a new global enterprise resource planning (ERP) system, which replaced our operating and financial systems, and we recently began our post-implementation activities. We cannot assure that the ERP system and our post-implementation activities will be free of significant operating failures, service interruptions, or creation of additional vulnerabilities. See Item 9A, "Controls and Procedures" for more details. Vulnerabilities, inadequacies, or failures are in many cases more acute for IT systems associated with recently acquired businesses, and we may be unable to entirely address such vulnerabilities, inadequacies, or failures immediately after acquiring a business or ever. As a result, our newly acquired businesses are in some cases more vulnerable to failures, interruptions, breaches, intrusions, theft, exfiltration, or attacks.

Cyber-attacks are growing in their frequency, sophistication, and intensity, and are becoming increasingly difficult to detect, mitigate, or prevent. Cyber-attacks come in many forms, including the deployment of harmful malware, exploitation of vulnerabilities (including those of third-party software or systems), denial-of-service attacks, the use of social engineering, and other means to compromise the confidentiality, integrity, and availability of IT systems, confidential information, and other data. Breaches resulting in the compromise, disruption, degradation, manipulation, loss, theft, exfiltration, destruction, or unauthorized disclosure or use of confidential information, or the unauthorized access to, disruption of, interference with, or attack of, our IT systems, products and services, can occur in a variety of ways, including negligent or wrongful conduct by employees or others with permitted access to our systems and information, or wrongful conduct by hackers, competitors, governments, nation-states, state-sponsored or affiliated groups, current or former company personnel, and other actors. Our third-party partners, including third-party providers of data hosting or cloud services, as well as suppliers, distributors, alliances, and other third parties with whom we may share data, face similar risks, which could affect us directly or indirectly. Unassociated third parties present further risks, including by propagating misinformation related to our products, business, and industry, including through social media. We and others in the healthcare industry have been and continue to be targets for cyber-attacks, and the number of threats has increased over time. Numerous federal agencies that monitor and regulate internet and cyber-crime have issued guidance, alerts and directives warning of software vulnerabilities that require immediate patching, malicious actors targeting healthcare-related systems and nation-state sponsored hacking designed to steal valuable information.

The failure, inadequacy, or breach of our IT systems or business processes, the compromise, disruption, degradation, manipulation, loss, theft, exfiltration, destruction, or unauthorized access to, disclosure or use of, confidential information, or the unauthorized access to, disruption of, or interference with our products and services that rely on IT systems or business processes, could impair our ability to secure and maintain intellectual property rights; result in a product manufacturing interruption or failure, or in the interruption or failure of products or services that rely on IT systems or business processes; damage our operations, patient and other relationships, or reputation; undermine integration activities or otherwise delay or prevent the launch of acquired products; result in unfavorable clinical trial results by virtue of incorrect or unreliable data; expose us to ransom payment, other demands, or paralyze our operations; give rise to legal liability and regulatory action under data protection and privacy laws; require disclosure to government authorities and/or regulators; expose us to civil and criminal investigations; and/or cause us to lose trade secrets or other competitive advantages, which effects could endure for a long period of time. Unauthorized disclosure of personally identifiable information could further expose us to significant sanctions for violations of data privacy laws and regulations around the world, subject us to litigation, and damage public trust in our company. In addition, IT system security in jurisdictions outside the U.S. is weaker and may result in additional costs, uncertainties, and risks.

We are subject to various laws and regulations globally regarding privacy and data protection, including laws and regulations relating to the collection, storage, handling, use, disclosure, transfer, and security of personal information. The legislative and regulatory environment regarding privacy and data protection is continuously evolving and the subject of significant attention by regulators and private parties globally. Regulators are imposing new data privacy and security requirements, including new and greater monetary fines or penalties for privacy violations, and jurisdictions where we operate have passed, or continue to propose, data privacy legislation and/or regulations. For example, we are subject to existing laws in the EU, United Kingdom, China, and U.S., all of which provide for substantial penalties for

noncompliance. Other jurisdictions where we operate have passed, or continue to propose, similar legislation and regulations. Failure to comply with these current and future laws could result in significant penalties and reputational harm and could have a material adverse effect on our business and results of operations.

To date, system inadequacies, inadequate controls or procedures, operating failures, unauthorized access, service interruptions or failures, security breaches, malicious intrusions, theft, exfiltration, ransomware, cyber-attacks, and the compromise, disruption, degradation, manipulation, loss, theft, exfiltration, destruction, or unauthorized disclosure or use of confidential information, or the unauthorized access to, disruption of, interference with, or attack of, our IT systems, products and services have not had a material impact on our business strategy, results of operations or financial condition. We maintain cyber liability insurance; however, this insurance may not be sufficient to cover the financial, operational, legal, business, or reputational losses that may result from an interruption or breach of our IT systems. We continue to implement measures in an effort to protect, detect, respond to, and minimize or prevent these risks and to enhance the resiliency of our IT systems; however, these measures may not be successful, and we may fail to detect or remediate system inadequacies, inadequate controls or procedures, operating failures, unauthorized access, service interruptions or failures, security breaches, malicious intrusions, theft, exfiltration, ransomware, cyber-attacks, or other compromises of our systems. Any of these events could result in material financial, operational, legal, business, or reputational harm to our business. For a discussion of our management of cybersecurity risks, see Item 1C, "Cybersecurity—Risk Management and Strategy" and "—Governance."

- **Manufacturing, quality, or supply chain difficulties, disruptions, or shortages could lead to product supply problems.**

We are in the midst of a significant expansion of our manufacturing capabilities and substantial investment in long-term supply agreements to support current and anticipated demand for our products. Pharmaceutical manufacturing is complex and highly regulated. Manufacturing or quality assurance difficulties at our facilities or those of our contractors and suppliers, the failure or refusal of a supplier or contract manufacturer to supply contracted quantities, or increases in demand on a supplier with constrained capacity could result in delays and disruptions in the manufacturing, distribution, and sale of our products and/or product shortages, leading to lost revenue or reduced market opportunities. In select cases, supply constraints may also lead to pauses, discontinuations, or other product availability issues in one or more markets, which could have a material adverse effect on our consolidated results of operations, cash flows, and reputation. Further, cost inflation and global transportation and logistics challenges, as well as tight labor markets, have caused, and in the future may cause, delays in, and/or increase costs related to, distribution of our medicines, the construction or other acquisition of additional manufacturing capacity, procurement activity, and supplier or contract manufacturer arrangements. These disruptions and challenges could result from actual or perceived quality, oversight, or regulatory compliance problems; natural disasters (including increased instances or severity of natural disasters or other events that may be due to climate change), public health outbreaks, epidemics, or pandemics; periods of uneven economic growth or downturns; emergence or escalation of, and responses to international tension and conflicts; equipment, mechanical, data, or IT system vulnerabilities, such as system inadequacies, inadequate controls or procedures, operating failures, unauthorized access, service interruptions or failures, security breaches, malicious intrusions, theft, exfiltration, ransomware or other cyber-attacks from a variety of sources; labor shortages; challenges and complexities in manufacturing new drug modalities; contractual disputes with our suppliers and contract manufacturers; vertical integration by competitors within our supply chain; or inability to obtain single-source or other raw or intermediate materials. Regional or single source dependencies may in some cases accentuate risks related to manufacturing and supply. For example, we, and the pharmaceutical industry generally, depend on China-based partners for integral chemical synthesis, reagents, starting materials, and ingredients. Finding alternative suppliers if and as necessary due to geopolitical developments or otherwise may not be feasible or could take a significant amount of time and involve significant expense due to the nature of our products and the need to obtain regulatory approvals which would cause disruptions to patients and detrimentally impact our business.

Difficulties in predicting or variability in demand for our products and those of our competitors and the very long lead times necessary for the expansion and regulatory qualification of pharmaceutical manufacturing capacity have resulted, and in the future may result, in difficulty meeting demand, or disruptions, shortages, and higher costs in the supply of, our products. For example, we have experienced challenges

in meeting demand for our incretin products in recent periods, partially due to the limited availability of competitor therapies, and expect tight supply to persist while additional manufacturing capacity is operationalized. Despite our ongoing efforts to meet significant expected demand by obtaining additional internal and contracted manufacturing capacity, there can be no assurances that such capacity increases will be realized as expected. Delays or challenges in operationalizing additional manufacturing capacity would limit our ability to capitalize on demand for our products. Conversely, unexpected events that limit demand for our products would undermine our ability to realize the full benefit of significant capital expenditures that we have incurred, and expect to continue to incur, to augment manufacturing capacity and may also subject us to contractual payment obligations, which may be significant. The foregoing risks and uncertainties could negatively impact our consolidated results of operations and reputation. See Item 1, "Business—Raw Materials and Product Supply," and Item 7, "Management's Discussion and Analysis—Financial Condition and Liquidity" for more details.

- **Reliance on third-party relationships and outsourcing arrangements could adversely affect our business.**

We rely on third parties, including suppliers, distributors, alliances, and collaborations with other pharmaceutical and biotechnology companies, and third-party service providers, for selected aspects of product and clinical development, manufacturing, commercialization, hosting of, and support for, IT systems, product distribution, and certain financial transactional processes. As examples, we outsource the day-to-day management and oversight of some of our clinical trials to contract research organizations, certain active ingredient manufacturing, finishing operations, and device or component production and assembly to contract manufacturing organizations, and the distribution of our products through logistics providers. In some cases, product or indication approvals depend on the outcome of regulatory inspections of third parties on which we rely. For example, in September 2023, the FDA issued a complete response letter for our lebrikizumab BLA for the treatment of moderate to severe atopic dermatitis. In the letter, the FDA cited findings that arose during a multi-sponsor inspection of a third-party, contract manufacturing organization that included the monoclonal antibody drug substance for lebrikizumab. We may encounter similar difficulties in the future, which could delay or prevent product launches and otherwise negatively affect our business, results, and reputation.

Outsourcing involves many risks, including the risk that third parties may not perform to our standards or legal requirements, including applicable requirements for diversity in clinical trials; may not produce reliable results; may not perform in a timely manner; may not maintain the confidentiality, integrity, and availability of confidential and proprietary information relating to us, our clinical trial subjects, or patients; may experience disruption or fail to perform due to IT system vulnerabilities, such as inadequacies, inadequate controls or procedures, operating failures, unauthorized access, service interruptions or failures, security breaches, malicious intrusions, theft, exfiltration, ransomware or other cyber-attacks; may be unable to satisfy their commitments to us in which case we may not be able to achieve acceptable alternative sourcing; or may fail to perform at all. The foregoing risks may be heightened in jurisdictions outside the U.S., where we may have fewer alternative providers as well as face additional costs, uncertainties, and risks. Failure of third parties to meet their contractual, regulatory, confidentiality, privacy, security, or other obligations to us, our clinical trial subjects, and our patients could have a material adverse effect on our business.

- **Our use of artificial intelligence (AI) or other emerging technologies could adversely impact our business and financial results.**

We have begun to deploy AI and other emerging technologies in various facets of our operations and we continue to explore further use cases for AI. The rapid advancement of these technologies presents opportunities for us in research, manufacturing, commercialization, and other business endeavors but also entails risks, including that AI-generated content, analyses, or recommendations we utilize could be deficient, that our competitors may more quickly or effectively adopt AI capabilities, or that our use of AI or other emerging technologies exacerbates regulatory, cybersecurity and other significant risks.

Effective development, management, and use of AI technologies is novel and complex, and there are technical challenges associated with achieving desired levels of accuracy, efficiency, and reliability. The algorithms and models utilized in AI systems may have limitations, including biases, errors, or inability to handle certain data types or scenarios or to render explainable outputs. Furthermore, there are risks associated with the fact that the platforms providing AI models are in many cases owned and operated by emerging companies with less contractual and compliance sophistication. These factors may undermine

our ability to effectively utilize AI or create competitive disadvantages should our competitors more skillfully make use of AI capabilities. Further, if we are unable to effectively manage the use of AI technologies by our employees, our confidential information, intellectual property, or reputation could be put at risk.

The emergence of AI and other technologies, particularly generative AI, may exacerbate other risks, including those related to regulation, litigation, compliance issues, ethical concerns, confidentiality, and data privacy or security. For example, regulatory uncertainty related to AI or other emerging technologies may require significant resources to adjust business practices to comply with developing laws. Several governmental authorities have already proposed or enacted laws and other guidance governing AI, such as the proposed EU Artificial Intelligence Act. These and other developing obligations may prevent or make it harder for us to conduct or enhance our business using AI, or lead to regulatory fines, penalties, or other liability. Further, use of AI technologies could lead to unintended consequences, such as cybersecurity risks or unintended biases, impact our ability to protect our confidential data and intellectual property, and expose us to intellectual property infringement claims by third parties.

Risks Related to Doing Business Internationally

- **Uneven economic growth or downturns or international trade and other global disruptions, geopolitical tensions, or disputes could adversely affect our business and operating results.**

Economic slowdowns could lead to decreased utilization of our products, affecting our sales. Declining tax revenues and increased government spending on other programs attributable to uneven economic growth or downturns increase the pressure on governments to reduce healthcare spending, leading to increased control of drug prices or lower utilization. Additionally, some customers, including governments or other entities reliant upon government funding and cash-pay patients, may be unable to pay for our products fully or in a timely manner. Also, if our customers, suppliers, or collaboration partners experience financial difficulties, we could experience slower customer collections, greater bad debt expense, and performance defaults by suppliers or collaboration partners. Similarly, uneven economic growth or downturns could limit our ability to access capital markets.

In addition, significant portions of our business are conducted in Europe, Asia, and other international geographies. Trade and other global disputes and interruptions, including related to tariffs, trade protection measures, import or export licensing requirements, the imposition of trade sanctions or similar restrictions by the U.S. or other governments, international tension and conflicts, as well as cost inflation, strains on global transportation, manufacturing, and labor markets, and public health outbreaks, epidemics, or pandemics, such as the COVID-19 pandemic, affect our ability to do business. For example, tensions between the U.S. and China have led to a series of tariffs and sanctions being imposed by the U.S. on imports from China mainland, as well as other business restrictions. If geopolitical tensions were to increase and disrupt our operations in, or related to, China, such disruption would significantly impact our business. As a further example, the financial impact of higher energy prices, defense spending, and inflation due, in part, to geopolitical and economic disruptions, has further exacerbated financial pressures on governments with single-payer or government funded healthcare systems, leading to increased impetus for increases in rebates, clawbacks, and other reforms to reimbursement systems, particularly in Europe. These and similar events have adversely affected, and may continue to adversely affect, us, our business partners, and our customers. For more details, see Item 1, "Business—Regulations and Private Payer Actions Affecting Pharmaceutical Pricing, Reimbursement, and Access."

In addition to developments related to our business or financial results, or those of our competitors, uneven economic growth, downturns, or other negative global developments, could also undermine our growth or result in significant and sudden declines in the trading price of our common stock and market capitalization.

- **Changes in foreign currency rates, interest rate risks, and inflation affect our results of operations.**

As a global company, we face foreign currency risk exposure from fluctuating currency exchange rates, interest rate risk from our exposure to floating and variable interest rates, and inflation risk from existing and expected rates of inflation in the U.S. and other jurisdictions, each of which impacts our results of operations. In recent periods, significant fluctuations in currency rates and inflation have impacted our results of operations. We are a net receiver of foreign currencies, and our results of operations are

adversely impacted when the U.S. dollar is strong compared to foreign currencies. Further, in the event of an extreme devaluation of local currency in a particular market in which we operate, the price of our products could become unsustainable in the relevant market. Inflationary pressures in recent periods have also negatively impacted us and may continue to negatively impact us in various ways, including cost inflation, higher labor costs, and other higher expenses, with some of these higher expenses due in part to policy actions intended to curb inflation. See Item 7, "Management's Discussion and Analysis—Financial Condition and Liquidity" and Item 8, "Financial Statements and Supplementary Data—Note 1: Summary of Significant Accounting Policies and Implementation of New Financial Accounting Standards," for more details.

Risks Related to Government Regulation and Litigation

- **We face litigation and investigations related to our products, how we price or commercialize our products, and other aspects of our business, which could adversely affect our business, and we are self-insured for such matters.**

We are subject to a substantial number of claims involving various current and historical products, litigation, and investigations. These claims relate to how we commercialize and/or how we price our products, including relating to our 340B drug pricing program, product safety, as well as contractual matters and other disputes. See Item 8, "Financial Statements and Supplementary Data—Note 16: Contingencies" for more information on our current product liability litigation, as well as pricing and other litigation, investigations, and inquiries. Like many companies in our industry, from time to time investigations into aspects of our business include inquiries, subpoenas, and other types of information demands from government and regulatory authorities. There continues to be a significant volume of government and regulatory investigations and litigation against companies operating in our industry, as well as increasingly robust regulatory enforcement. Because of the nature of pharmaceutical products, we are, and could in the future become, subject to large numbers of product liability claims for our previous, current, or future products, or to further litigation or investigations, including related to product safety and pricing or other commercial practices. Some of these matters involve numerous plaintiffs and parties seeking large or indeterminate financial claims and may remain unresolved for several years. Such matters could negatively impact our reputation, affect our results of operations or require us to recognize substantial charges to resolve and, if involving marketed products, could adversely affect sales of the product and our consolidated results of operations in any given period. Due to a very restrictive market for liability insurance, we are predominately self-insured for litigation liability losses for all of our currently marketed products, as well as for litigation or investigations related to our pricing practices or other similar matters.

- **We are subject to evolving and complex tax laws, which may result in additional liabilities and affect our results of operations.**

We are subject to income taxes in the U.S. and numerous other jurisdictions, and in the course of our business, we make judgments about the expected tax treatment of various transactions and events. Changes in tax laws, regulations, administrative practices, principles, disclosure obligations, and interpretations, as well as events that differ from our expectations, have affected and may adversely affect our effective tax rates, cash flows, and/or results of operations. In addition, tax authorities in the U.S. and other jurisdictions in which we do business routinely examine our tax returns and are intensifying their scrutiny and examinations of cross-border tax issues, which could unfavorably impact our results of operations. Further, actions taken with respect to tax-related matters by associations such as the Organisation for Economic Co-operation and Development and the European Commission could influence tax laws in countries in which we operate, such as the recent enactments by both the EU and non-EU countries of a global minimum tax. Modifications to key elements of the U.S. or international tax framework could have a significant impact on our effective tax rate, results of operations, and cash flows. See Item 7, "Management's Discussion and Analysis—Executive Overview—Other Matters—Tax Matters" and Item 8, "Financial Statements and Supplementary Data—Note 14: Income Taxes," for more details.

- **Regulatory compliance problems could be damaging to the company.**

The marketing, promotional, and pricing practices of pharmaceutical manufacturers, as well as the manner in which manufacturers interact with purchasers, prescribers, and patients, are subject to extensive scrutiny and regulation. Many companies, including us, are and have been subject to investigations, litigation, and claims related to these practices asserted by governmental authorities and

other parties. These investigations, litigation, and claims have resulted in substantial expense and other significant consequences. The final outcomes of such investigations, litigation, and claims include criminal charges and fines, penalties, or other monetary or non-monetary remedies, including exclusion from U.S. federal and other healthcare programs. Such investigations, litigation, and claims have intensified and may continue to intensify as a result of evolving U.S. and foreign regulatory priorities. New business practices or commercial capabilities may subject us to additional scrutiny over compliance with applicable regulatory schemes and compliance obligations or expose us to new regulatory schemes and compliance obligations entirely. In addition, regulatory issues concerning compliance with cGMP, quality assurance, evolving standards, and increased scrutiny around excipients and potential impurities such as nitrosamines, and similar regulations and standards (and comparable foreign regulations and standards) for our products in some cases lead to regulatory and legal actions, product recalls and seizures, fines and penalties, interruption of production leading to product shortages, import bans or denials of import certifications, delays or denials in new product approvals or line extensions or supplemental approvals of current products pending resolution of the issues, and reputational harm, any of which adversely affects our business. Regulatory oversight of the pharmaceutical industry entails judgment and interpretation, which can result in inconsistent administration of laws and regulations by health authorities. Regulatory compliance and processes in jurisdictions outside the U.S. may be particularly unpredictable and result in additional costs, uncertainties, and risks. U.S. and foreign governmental authorities are actively promulgating additional regulations that impact many aspects of our operations. These regulations are in some cases advanced with short notice. New regulations may undermine our ability to achieve business objectives, may be costly to implement, may provide only limited time for compliance, may change accounting and reporting standards, and may carry significant penalties for non-compliance. See Item 1, "Business—Government Regulation of Our Operations," for more details.

Furthermore, there is an increased focus by foreign, federal, state, and local regulatory and legislative bodies regarding environmental policies relating to climate change, regulating greenhouse gas emissions, carbon taxes, emissions trading schemes, sustainability, human rights and equity matters, and disclosure regarding the foregoing, many of which may be ambiguous, inconsistent, dynamic or conflicting. We expect to experience increased restrictions and compliance costs, legal costs, and expenses related to such new or changing legal or regulatory requirements. Moreover, compliance with any such legal or regulatory requirements would require us to devote substantial time and attention to these matters. In addition, we may still be subject to penalties or potential litigation if such laws and regulations are interpreted or applied in a manner inconsistent with our practices.

Additionally, we are subject to increased negative attention from the media, stockholders, activists, and other stakeholders on climate change, social, and sustainability matters. The perception that we have failed to act in a socially responsible manner, whether or not valid, results in adverse publicity that can negatively affect our business, brand, and reputation, as well as result in increased scrutiny from legislators and regulatory authorities. Moreover, from time to time we establish and publicly announce goals and commitments, including to reduce our impact on the environment. Our ability to achieve any stated environmental, social or governance goal, target or objective is subject to numerous factors and conditions, many of which are outside our control. Examples of such factors include evolving regulatory requirements affecting sustainability standards or disclosures or imposing different requirements, the availability of requisite financing, and the availability of suppliers that can meet our sustainability and other goals. If we fail to achieve, are perceived to have failed or been delayed in achieving, or improperly report our progress toward achieving these goals and commitments, it could negatively affect our reputation, brand, or investor confidence, and expose us to enforcement actions and litigation.

Item 1B. Unresolved Staff Comments

None.

Item 1C. Cybersecurity

Risk Management and Strategy

We manage cybersecurity threats as part of our oversight, evaluation, and mitigation of enterprise-level risks. We have based our cybersecurity program on industry frameworks with the goal of building enterprise resilience against an evolving landscape of cybersecurity threats and to respond to cybersecurity threats as they materialize. Our program includes monitoring, identification, assessment, and management components, as well as information and escalation components designed to inform management and the board of directors of prospective risks and developments.

Our information security program encompasses functions dedicated to both proactive and reactive management of cybersecurity threats. We implement our cybersecurity program internally through established policies, standards, reference architectures, and the use of enterprise security services that focus on emerging and ongoing cybersecurity risks. Our proactive management of cybersecurity risks entails many actions, including the maintenance of system access restrictions, utilization of data security technology, employee education and training initiatives, and retention of cyber liability insurance, among other measures. We regularly engage third-party auditors and consultants and leverage our internal audit function to assess various facets of our cybersecurity program. These engagements include completion of industry-standard assessments or certifications, maturity model reviews, threat simulations, as well as internal reviews to assess the effectiveness of our cybersecurity processes. We also maintain enterprise-wide processes to oversee and identify risks from cybersecurity threats associated with our use of third-party service providers. As examples, we generally review current and prospective third-party service providers for unacceptable cybersecurity risks, negotiate contractual provisions that require the establishment of third-party cybersecurity controls, and deploy communications security measures to protect third-party communications.

We assess cybersecurity contingencies within our overall business continuity risk management planning process. Our Information Security team utilizes various tools to prevent, detect, monitor, and react to cybersecurity threats. Our Incident Response Playbook outlines processes, roles, responsibilities, engagements, escalations, notifications, and other communications applicable to the assessment, mitigation, and remediation of realized cybersecurity events. The nature and assessed risk of a realized cybersecurity event dictates the pace and extent of relevant processes, escalations, and communications, including an evaluation of any necessary or required disclosure. Roles and escalation paths range from within the Information Security team up to the Executive Committee, and the board of directors and its committees, as appropriate.

We describe risks faced by us from identified cybersecurity threats in Item 1A, "Risk Factors—Risks Related to Our Operations— Failure, inadequacy, breach of, or unauthorized access to, our IT systems or those of our third-party service providers, unauthorized access to our confidential information, or violations of data protection laws, could each result in material harm to our business and reputation", "Risk Factors—Risks Related to Our Operations— Manufacturing, quality, or supply chain difficulties, disruptions, or shortages could lead to product supply problems" and "Risk Factors—Risks Related to Our Operations—Reliance on third-party relationships and outsourcing arrangements could adversely affect our business."

Governance

Management, under the supervision of our Chief Information Security Officer (CISO), is directly responsible for assessing and managing cybersecurity risks and otherwise implementing our cybersecurity program, which includes our Incident Response Playbook. The CISO reports directly to our Chief Information and Digital Officer (CIDO), who is a member of our Executive Committee and leads our information technology, cybersecurity, digital health, and advanced analytics and data science functions. Our CIDO in turn regularly updates our Executive Committee on cybersecurity matters. Our CISO and CIDO have significant experience managing global cybersecurity threats across the pharmaceutical, technology, entertainment, and defense industries. In addition to providing regular updates to the CIDO and his staff, the CISO is a member of our Executive Information Security Governance function (EISG), which meets regularly and is also composed of executive and senior leadership from a variety of functions, including information security, legal, finance, audit, and ethics and compliance to assess and manage cybersecurity developments and risks and our internal programs. Each of the CIDO, the CISO and the EISG may call upon business and legal stakeholders across our company to manage cybersecurity threats and incidents.

The audit committee of our board of directors is responsible for oversight of the company's programs, policies, procedures, and risk management activities related to information security and data protection. The audit committee meets regularly with our CIDO and CISO to discuss threats, risks, and ongoing efforts to enhance cyber resiliency, as well as changes to the broader cybersecurity landscape. In addition, the ethics and compliance committee supports the audit committee and board in oversight of legal and regulatory compliance. Our board of directors also regularly participates in presentations on cybersecurity and information technology. In addition to regular presentations, management promptly updates our board of directors regarding significant threats and incidents as they arise.

Item 2. Properties

Our principal domestic and international executive offices are located in Indianapolis. At December 31, 2023, we owned eleven production, distribution, and corporate administrative sites in the United States (U.S.), including Puerto Rico. These facilities contain an aggregate of approximately 9.0 million square feet of floor area dedicated to production, distribution, and administration. Major production sites include Indianapolis, Indiana; Carolina, Puerto Rico; Durham, North Carolina; and Branchburg, New Jersey.

We also own production and distribution sites in Europe and Asia, containing an aggregate of approximately 4.7 million square feet of floor area. Major production sites include facilities in Ireland, France, Spain, Italy, and China. Additional U.S. and international production facilities and expansions of production facilities are expected to come online in future periods.

In the U.S., our research and development facilities contain an aggregate of approximately 4.9 million square feet of floor area, primarily consisting of owned facilities located in Indianapolis and smaller leased sites primarily in Boston, Massachusetts; San Diego, California; San Francisco, California; and New York, New York. Outside the U.S., we own a small research and development facility in Spain and lease a small site in Singapore.

We believe that none of our properties is subject to any encumbrance, easement, or other restriction that would detract materially from its value or impair its use in the operation of the business. The buildings we own are of varying ages and in good condition.

Item 3. Legal Proceedings

We are a party to various currently pending legal actions, government investigations, and environmental proceedings. Information pertaining to legal proceedings is described in Item 8, "Financial Statements and Supplementary Data - Note 16: Contingencies," and incorporated by reference herein.

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

Information relating to the principal market for our common stock, dividends, and related stockholder matters is described in Item 7, "Management's Discussion and Analysis of Results of Operations and Financial Condition" and Item 12, "Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters." This information is incorporated herein by reference.

As of February 16, 2024, there were approximately 18,871 holders of record of our common stock based on information provided by EQ Shareowner Services, our transfer agent. Our common stock is listed under the ticker symbol LLY on the New York Stock Exchange (NYSE).

The following table summarizes the activity related to repurchases of our equity securities during the fourth quarter ended December 31, 2023:

Period	Total Number of Shares Purchased (in thousands)	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs (in thousands)	Approximate Dollar Value of Shares that May Yet Be Purchased Under the Plans or Programs (dollars in millions)
October 2023	—	\$ —	—	\$ 2,500.0
November 2023	—	—	—	2,500.0
December 2023	—	—	—	2,500.0
Total	—	—	—	

During the three months ended December 31, 2023, we did not repurchase any shares under our \$5.00 billion share repurchase program authorized in May 2021.

PERFORMANCE GRAPH

The following graph compares the return on Lilly stock with that of the Standard & Poor's (S&P) 500 Stock Index and our peer group for the years 2019 through 2023. The graph assumes that, on the last business day of 2018, a person invested \$100 each in Lilly stock, the S&P 500 Stock Index, and the peer group's collective common stock. The graph measures total shareholder return, which takes into account both stock price and dividends. It assumes that dividends paid by a company are immediately reinvested in that company's stock.

Value of \$100 Invested on Last Business Day of 2018 Comparison of Five-Year Cumulative Total Shareholder Return Among Lilly, S&P 500 Stock Index, and Peer Group⁽¹⁾

715

	Lilly	Peer Group	S&P 500
Dec-18	\$ 100.00	\$ 100.00	\$ 100.00
Dec-19	116.15	118.31	131.49
Dec-20	152.23	121.00	155.68
Dec-21	252.82	145.23	200.37
Dec-22	339.38	158.70	164.08
Dec-23	546.08	158.45	207.21

⁽¹⁾ We constructed the peer group as the industry index for this graph. It is comprised of the following companies in the pharmaceutical and biotechnology industries: AbbVie Inc.; Amgen Inc.; AstraZeneca PLC; Biogen Inc.; Bristol-Myers Squibb Company; Gilead Sciences Inc.; GlaxoSmithKline plc; Johnson & Johnson; Merck & Co., Inc.; Novartis AG; Novo Nordisk A/S; Pfizer Inc.; Roche Holding AG; Sanofi S.A.; and Takeda Pharmaceutical Company Limited. The peer group used for performance benchmarking aligns with the peer group used for executive compensation purposes for 2023.

Item 6. [Reserved]

Item

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

(Tables present dollars in millions, except per-share data)

General

Management's discussion and analysis of results of operations and financial condition is intended to assist the reader in understanding and assessing significant changes and trends related to our results of operations and financial position. This discussion and analysis should be read in conjunction with Item 8, "Financial Statements and Supplementary Data." Certain statements in this Item 7 constitute forward-looking statements. Various risks and uncertainties, including those discussed in "Forward-Looking Statements" and Item 1A, "Risk Factors," may cause our actual results, financial position, and cash generated from operations to differ from these forward-looking statements.

EXECUTIVE OVERVIEW

This section provides an overview of our financial results, late-stage pipeline developments, and other matters affecting our company and the pharmaceutical industry.

Financial Results

The following table summarizes certain financial information:

	Year Ended December 31,				
	2023		2022		Percent Change
Revenue	\$ 34,124.1		\$ 28,541.4		20
Net income	5,240.4		6,244.8		(16)
Earnings per share - diluted	5.80		6.90		(16)

Revenue increased in 2023 driven by increased volume and higher realized prices. The increase in revenue in 2023 was primarily driven by sales of Mounjaro®, Verzenio®, and Jardiance®, as well as the sales of the rights for the olanzapine portfolio, including Zyprexa®, and for Baqsimi®, partially offset by the absence of revenue from COVID-19 antibodies and lower sales of Alimta® following the entry of multiple generics in the first half of 2022.

Net income and earnings per share decreased in 2023, driven primarily by higher acquired in-process research and development (IPR&D) charges and increased research and development expenses, marketing, selling, and administrative expenses, and income taxes, partially offset by increased revenue.

See "Results of Operations" for additional information.

Late-Stage Pipeline

Our long-term success depends on our ability to continually discover or acquire, develop, and commercialize innovative medicines. We currently have approximately 50 new medicine candidates in clinical development or under regulatory review, and a larger number of projects in the discovery phase.

The following select new molecular entities (NMEs) and new indication line extension (NILEX) products are currently in Phase II or Phase III clinical trials or have been submitted for regulatory review or have recently received regulatory approval in the United States (U.S.), European Union (EU), or Japan. The table reflects the status of these NMEs and NILEX products, including certain other developments, up to the time of the filing of this Annual Report on Form 10-K:

Compound	Indication/Study	Status	Developments
Diabetes, Obesity, and Other Cardiometabolic Diseases			
Empagliflozin (Jardiance) ⁽¹⁾	Chronic kidney disease	Approved	Approved in the U.S. and the EU in 2023. Submitted in Japan in 2022.
Tirzepatide (Mounjaro, Zepbound®)	Obesity	Approved	Approved in the U.S. and the EU in 2023. Phase III trials are ongoing.
	Cardiovascular outcomes in type 2 diabetes	Phase III	Phase III trial is ongoing.
	Heart failure with preserved ejection fraction	Phase III	Phase III trial is ongoing.
	Morbidity and mortality in obesity	Phase III	Phase III trial is ongoing.
	Obstructive sleep apnea (OSA)	Phase III	Granted U.S. Food and Drug Administration (FDA) Fast Track designation ⁽²⁾ . Phase III trial is ongoing.
	Higher doses	Phase II	Phase II trial initiated in 2023.
	Nonalcoholic steatohepatitis	Phase II	Announced in 2024 that a Phase II trial met its primary endpoint.
Insulin Efsitora Alfa	Type 1 and type 2 diabetes	Phase III	Phase III trials are ongoing.
Orforglipron	Obesity	Phase III	Phase III trials initiated in 2023.
	Type 2 diabetes	Phase III	Phase III trials initiated in 2023.
Retatrutide	Obesity, osteoarthritis, OSA	Phase III	Phase III trials initiated in 2023.
	Type 2 diabetes	Phase II	Phase II trial was completed.
Bimagrumab	Obesity	Phase II	Acquired in the acquisition of Versanis Bio, Inc. (Versanis) in 2023. Phase II trial is ongoing.
Lepodisiran	Cardiovascular disease	Phase II	Phase II trial is ongoing.
Mazdutide	Obesity	Phase II	Phase II trial initiated in 2023.
Muvalaplin	Cardiovascular disease	Phase II	Phase II trial is ongoing.
Solbinsiran	Cardiovascular disease	Phase II	Phase II trial is ongoing.
Volenrelaxin	Heart failure	Phase II	Phase II trial initiated in 2023.

Compound	Indication/Study	Status	Developments
Immunology			
Lebrikizumab ⁽³⁾ (Ebglyss®)	Atopic dermatitis	Approved	Approved in the EU in 2023 and in Japan in 2024. Submitted in the U.S. in 2022. We received a complete response letter from the FDA in 2023. We anticipate regulatory action by the end of 2024. Phase III trials are ongoing.
Mirikizumab	Crohn's Disease	Phase III	Announced in 2023 that a Phase III trial met the co-primary and all major secondary endpoints compared to placebo. Phase III trials are ongoing.
DC-806	Psoriasis	Phase II	Acquired in the acquisition of DICE Therapeutics, Inc. (DICE) in 2023. Phase II trial is ongoing.
Eltrekibart	Hidradenitis suppurativa	Phase II	Phase II trial is ongoing.
KV1.3 Antagonist	Psoriasis	Phase II	Phase II trial initiated in 2024.
Ocadusertib (RIPK1 inhibitor)	Rheumatoid arthritis	Phase II	Phase II trial initiated in 2023.
Peresolimab	Rheumatoid arthritis	Phase II	Phase II trial is ongoing.
Ucenprubart	Atopic dermatitis	Phase II	Phase II trial initiated in 2023.
Neuroscience			
Donanemab	Early Alzheimer's disease	Submitted	Submitted for approval in the U.S., the EU, and Japan in 2023. Granted FDA Breakthrough Therapy designation ⁽⁴⁾ . Phase III trials are ongoing.
	Preclinical Alzheimer's disease	Phase III	Phase III trial is ongoing.
Remternetug	Early Alzheimer's disease	Phase III	Phase III trial is ongoing.
GBA1 Gene Therapy	Gaucher disease Type 1	Phase II	Phase II trial initiated in 2023.
	Parkinson's disease	Phase II	Granted FDA Fast Track designation ⁽²⁾ . Phase II trial is ongoing.
GRN Gene Therapy	Frontotemporal dementia	Phase II	Granted FDA Fast Track designation ⁽²⁾ . Phase II trial is ongoing.
O-GlcNAcase Inh	Alzheimer's disease	Phase II	Phase II trial is ongoing.
OTOF Gene Therapy	Hearing loss	Phase II	Phase II trial initiated in 2024.
P2X7 Inhibitor	Pain	Phase II	Phase II trials were completed.
SSTR4 Agonist	Pain	Phase II	Phase II trials are ongoing.

Compound	Indication/Study	Status	Developments
Oncology			
Pirtobrutinib (Jaypirca®)	Chronic lymphocytic leukemia	Approved ⁽⁵⁾	FDA granted accelerated approval ⁽⁵⁾ in the U.S. in 2023. Phase III trials are ongoing.
	Mantle cell lymphoma	Approved ⁽⁵⁾	FDA granted accelerated approval ⁽⁵⁾ in the U.S. in 2023. Approved in the EU in 2023. Submitted in Japan in 2023. Phase III trial is ongoing.
Imlunestrant	Adjuvant breast cancer	Phase III	Phase III trial is ongoing.
	ER+HER2- metastatic breast cancer	Phase III	Phase III trial is ongoing.
Olomorasib	KRAS G12C-mutant NSCLC	Phase II	Phase II trial initiated in 2023.
Abemaciclib	Prostate cancer	Discontinued	In 2024, Phase III trials did not meet primary endpoints or were terminated for futility.

⁽¹⁾ In collaboration with Boehringer Ingelheim.

⁽²⁾ Fast Track designation is designed to facilitate the development and expedite the review of medicines to treat serious conditions and fill an unmet medical need.

⁽³⁾ In collaboration with Almirall, S.A. in Europe.

⁽⁴⁾ Breakthrough Therapy designation is designed to expedite the development and review of potential medicines that are intended to treat a serious condition where preliminary clinical evidence indicates that the treatment may demonstrate substantial improvement over available therapy on a clinically significant endpoint.

⁽⁵⁾ Continued approval may be contingent on verification and description of clinical benefit in confirmatory Phase III trials.

There are many difficulties and uncertainties inherent in pharmaceutical research and development, the introduction of new products and indications, business development activities to enhance or refine or product pipeline, and commercialization of our products. There is a high rate of failure inherent in drug discovery and development. To bring a product from the discovery phase to market takes considerable time and entails significant cost. Failure can occur at any point in the process, including in later stages after substantial investment. As a result, most funds invested in research and development programs will not generate financial returns. New product candidates that appear promising in development or prior to being acquired may fail to reach the market or may have only limited commercial success because of efficacy or safety concerns, inability to obtain or maintain necessary regulatory approvals or payer reimbursement or coverage, failure to obtain placement on guidelines or recommendations published by third-party organizations that are commensurate with clinical data, the application of pricing controls, limited scope of approved uses, label changes, changes in the relevant treatment standards or the availability of newer, better, or more cost-effective competitive products, difficulty or excessive costs to manufacture, insufficient infrastructure to support detection, diagnostic or other requisites for treatment, ineffectiveness in reaching healthcare professionals, including digitally given the increase in virtual engagements, or infringement of the patents or intellectual property rights of others. We may also fail to allocate research and development resources efficiently, fail to pursue or invest sufficiently in product candidates or indications that may have been successful, or fail to optimally balance trial design, conduct, and speed to accomplish desired outcomes. Regulatory agencies establish high hurdles for the efficacy and safety of new products and indications. Delay, uncertainty, unpredictability, and inconsistency in drug approval processes across markets and agencies can result in delays in product launches, lost market opportunities, impairment of inventories, and other negative impacts. In addition, it can be very difficult to predict revenue growth rates of, or variability in demand for, new products and indications which in some cases leads to difficulty meeting product demand or, on the other hand, excess inventory and related financial charges.

We manage research and development spending across our portfolio of potential new medicines and indications. A delay in, or termination of, any one project will not necessarily cause a significant change in our total research and development spending. Due to the risks and uncertainties involved in the research and development process, we cannot reliably estimate the nature, timing, and costs of the efforts necessary to complete the development of our research and development projects, nor can we reliably estimate the future potential revenue that will be generated from any successful research and development project. Each project represents only a portion of the overall pipeline, and none is individually material to our consolidated research and development expense. While we do accumulate certain research and development costs on a project level for internal reporting purposes, we must make significant cost estimations and allocations, some of which rely on data that are neither reproducible nor validated through accepted control mechanisms. Therefore, we do not have sufficiently reliable data to report on total research and development costs by project, by preclinical versus clinical spend, or by therapeutic category.

Other Matters

Patent Matters

We depend on patents or other forms of intellectual property protection for most of our revenue, cash flows, and earnings.

See Note 16 to the consolidated financial statements for a description of legal proceedings currently pending regarding certain of our patents.

See Item 1, "Business—Patents, Trademarks, and Other Intellectual Property Rights" for additional discussion of the impacts of trends involving intellectual property on our business and results.

Trends Affecting Pharmaceutical Pricing, Reimbursement, and Access

Reforms, including those that may stem from political initiatives, periods of uneven economic growth or downturns, or as a result of high inflation, the emergence or escalation of, and responses to, international tension and conflicts, or government budgeting priorities, are expected to continue to result in added pressure on pricing and reimbursement for our products.

Global concern over access to and affordability of pharmaceutical products continues to drive regulatory and legislative debate and action, as well as worldwide cost containment efforts by governmental authorities. Such measures include the use of mandated discounts, price reporting requirements, mandated reference prices, restrictive formularies, changes to available intellectual property protections, as well as other efforts. In August 2022, the U.S. government enacted the Inflation Reduction Act of 2022 (IRA). Among other measures, the IRA requires the U.S. Department of Health and Human Services (HHS) to effectively set prices for certain single-source drugs and biologics reimbursed under Medicare Part B and Part D. Generally, these government prices apply nine years (for medicines approved under a New Drug Application) or thirteen years (for medicines approved under a Biologics License Application) following initial FDA approval and will be set at a price that is likely to represent a significant discount from existing average prices to wholesalers and direct purchasers. While the law specifies a ceiling price, it does not set a minimum or floor price. In August 2023, the HHS selected Jardiance, which is part of our collaboration with Boehringer Ingelheim, as one of the first ten medicines subject to government-set prices effective in 2026. Given our product portfolio, we expect additional significant products will be selected in future years, which would have the effect of accelerating revenue erosion prior to expiry of exclusivities. The effect of reducing prices and reimbursement for certain of our products would significantly impact our business and consolidated results of operations.

Other IRA provisions require drug manufacturers to provide rebates for Medicare Part B and Part D medicines under certain circumstances. Also, the Part D benefit redesign will replace the Part D Coverage Gap Discount Program with a new manufacturer discount program. Manufacturers that fail to comply with the IRA may be subject to various penalties, including civil monetary penalties, which could be significant.

The IRA has and will meaningfully influence our business strategies and those of our competitors. In particular, the nine-year timeline to set prices for medicines approved under a new drug application reduces the attractiveness of investment in small molecule innovation. The IRA can cause changes to development approach and timing and investments at-risk. The full impact of the IRA on our business and the pharmaceutical industry, including the implications to us of a competitor's product being selected for price setting, remains uncertain.

Additional policies, regulations, legislation, or enforcement, including those proposed or pursued by the U.S. Congress, the U.S. executive branch, and regulatory authorities worldwide, could adversely impact our business and consolidated results of operations.

Consolidation and integration of private payors and pharmacy benefit managers in the U.S. has also significantly impacted the market for pharmaceuticals by increasing payor leverage in negotiating manufacturer price or rebate concessions and pharmacy reimbursement rates. Furthermore, restrictive or unfavorable pricing, coverage, or reimbursement determinations for our medicines or product candidates by governments, regulatory agencies, courts, or private payers may adversely impact our business and consolidated results of operations. We expect that these actions may intensify and could particularly affect certain products, which could adversely affect our business. In addition, we are engaged in litigation and investigations related to our 340B program, access to insulin, pricing, product safety, and other matters that, if resolved adversely to us, could negatively impact our business and consolidated results of operations. It is not currently possible to predict the overall potential adverse impact to us or the general pharmaceutical industry of continued cost containment efforts worldwide.

In addition, regulatory issues concerning compliance with current Good Manufacturing Practices, quality assurance, safety signals, evolving standards, and increased scrutiny around excipients and potential impurities such as nitrosamines, and similar regulations and standards (and comparable foreign regulations and standards) for our products in some cases lead to regulatory and legal actions, product recalls and seizures, fines and penalties, interruption of production leading to product shortages, import bans or denials of import certifications, inability to realize the benefit of capital expenditures, or delays or denials in new product approvals, line extensions or supplemental approvals of current products pending resolution of the issues, or other negative impacts, any of which result in reputational harm or adversely affect our business. Moreover, increased focus on business combinations across industries and jurisdictions can lead to impediments to the completion of business combinations.

See Item 1, "Business—Regulations and Private Payer Actions Affecting Pharmaceutical Pricing, Reimbursement, and Access," Item 1A, "Risk Factors," and Note 16 to the consolidated financial statements for additional information.

Product Supply

We have faced challenges, and expect to continue to face challenges, meeting strong demand for our incretin products. In the U.S., given the strong uptake of Mounjaro, the recent launch of Zepbound, and continuing demand for Trulicity®, we have experienced intermittent delays in fulfilling certain orders for incretin products. Outside the U.S., we have implemented actions to manage demand amid tight supply, including measures to minimize impact to existing Trulicity patients. We have also progressed efforts to bring tirzepatide to patients via different delivery presentations outside the U.S., such as single-use vials and multi-use pens. We expect to continue to experience disruptions in our supply of incretin products and for demand and supply considerations to influence the timing of tirzepatide launches in new markets, if approved.

We anticipate tight supplies of our incretin products will persist while additional manufacturing capacity is operationalized. We expect additional internal and contracted manufacturing capacity will become fully operational around the world in the next several years as part of our ongoing efforts to meet the significant demand for our incretin medicines. For example, in 2023 we began production at our Research Triangle Park site in North Carolina and expect to continue significant capacity expansion over time as we increase production at this site and others.

Tax Matters

We are subject to income taxes and various other taxes in the U.S. and in many foreign jurisdictions; therefore, changes in both domestic and international tax laws or regulations have affected and may affect our effective tax rate, results of operations, and cash flows. The U.S. and countries around the world are actively proposing and enacting tax law changes. Further, actions taken with respect to tax-related matters by associations such as the Organisation for Economic Co-operation and Development (OECD) and the European Commission could influence tax laws in countries in which we operate. Tax authorities in the U.S. and other jurisdictions in which we do business routinely examine our tax returns and are expected to increase their scrutiny of cross-border tax issues. Changes to existing U.S. and foreign tax laws and increased scrutiny by tax authorities in the U.S. and other jurisdictions could adversely impact our future consolidated results of operations and cash flows.

In response to the OECD/G20 Inclusive Framework on Base Erosion and Profit Shifting (Framework), which set forth a two-pillar solution to reform the international tax framework, and the EU's adoption of Directive 2022/2523 (known as "Pillar Two") (Directive) within the EU to implement the Framework, multiple countries, both within and outside of the EU, have enacted legislation that provides for a minimum level of taxation of multinational companies. The Directive required EU member states to enact legislation effective for years beginning on or after December 31, 2023. For certain provisions within the Framework, the OECD published guidance during 2023 that extends the effective dates for enactment. While we expect an increase in future years' tax expense as a result of the global minimum tax, we do not anticipate a material impact to our 2024 consolidated results of operations. Our assessment of the impact for 2024 and subsequent years could be affected by legislative guidance, future enactment of additional provisions within the Pillar Two framework, and U.S. tax changes scheduled to occur in 2026 as part of the Tax Cuts and Jobs Act (2017 Tax Act).

A bipartisan tax bill, the Tax Relief for American Families and Workers Act, was passed by the U.S. House of Representatives in January 2024. The bill contains certain business tax provisions including the retroactive repeal for 2022 and 2023 and deferral of the requirement to capitalize U.S. research and development expenses for tax purposes that was a provision enacted in the 2017 Tax Act. Uncertainty exists as to whether the bill will be enacted into law; however, if the bill is enacted as currently drafted, we would expect our effective tax rate for 2024 to be moderately higher, and a net discrete tax detriment in the quarter of enactment related to 2022 and 2023. In addition, we would expect a decrease in cash tax payments.

Acquisitions

We invest in external research and technologies that we believe complement and strengthen our own efforts. These investments can take many forms, including acquisitions, collaborations, investments, and licensing arrangements. We view our business development activity as a way to enhance or refine our pipeline and strengthen our business.

For investments that were accounted for as asset acquisitions, we paid \$3.94 billion in 2023 for acquired IPR&D primarily related to acquisitions of DICE, Versanis, Emergence Therapeutics AG (Emergence), and Mablink Biosciences SAS (Mablink). For investments that were accounted for as business combinations, we paid \$1.04 billion in 2023 primarily related to the acquisition of POINT Biopharma Global Inc. (POINT).

See Note 3 to the consolidated financial statements for further discussion regarding our recent acquisitions.

For discussion of risks related to business development activities, see Item 1A, "Risk Factors—Pharmaceutical research and development is very costly and highly uncertain; we may not succeed in developing, licensing, or acquiring commercially successful products sufficient in number or value to replace revenues of products that have lost or will lose intellectual property protection or are displaced by competing products or therapies."

Foreign Currency Exchange Rates

As a global company, we face foreign currency risk exposure from fluctuating currency exchange rates, primarily the U.S. dollar against the euro, Japanese yen, and Chinese yuan. While we seek to manage a portion of these exposures through hedging and other risk management techniques, significant fluctuations in currency rates can have a material impact, either positive or negative, on our consolidated results of operations in any given period. There is uncertainty in the future movements in foreign currency exchange rates, and fluctuations in these rates could adversely impact our consolidated results of operations and cash flows.

Other Factors

Other factors have had, and may continue to have, an impact on our consolidated results of operations. These factors include cost and wage inflation, availability of adequate capacity in global transportation, supply chain and labor market complexities, international tension and conflicts, uneven economic growth or downturns or uncertainty, and an increase in overall demand in our industry for certain products and materials.

See Item 1A, "Risk Factors" for additional information on risk factors that could impact our business and operations.

RESULTS OF OPERATIONS

Operating Results—2023

Revenue

The following table summarizes our revenue activity by region:

	Year Ended December 31,				
	2023		2022		Percent Change
U.S.	\$ 21,791.0		\$ 18,190.0		20
Outside U.S.	12,333.1		10,351.3		19
Revenue	\$ 34,124.1		\$ 28,541.4		20

Numbers may not add due to rounding.

The following are components of the change in revenue compared with the prior year:

	2023 vs. 2022			
	U.S.	Outside U.S.	Consolidated	
Volume	11 %	25 %	16 %	
Price	9 %	(4) %	4 %	
Foreign exchange rates	— %	(1) %	— %	
Percent change	20 %	19 %	20 %	

Numbers may not add due to rounding.

In the U.S. the increase in volume in 2023 was primarily driven by Mounjaro, Verzenio, Jardiance, Trulicity, Taltz®, and Zepbound and \$579.0 million from the sale of the rights for Baqsimi, partially offset by the absence of revenue from COVID-19 antibodies and decreased volume from Alimta following the entry of multiple generics in the first half of 2022. In the U.S. the higher realized prices in 2023 were primarily driven by Mounjaro, due to decreased utilization of savings card programs as access continued to expand, partially offset by Trulicity, due to higher contracted rebates and unfavorable segment mix, as well as changes to estimates for rebates and discounts, and Humalog®, primarily due to a one-time impact related to the implementation of list price decreases and unfavorable segment mix.

Outside the U.S. the increase in volume in 2023 was primarily driven by \$1.45 billion from the sale of the rights for the olanzapine portfolio, including Zyprexa, as well as increased volume for Verzenio and Jardiance. Outside the U.S. the lower realized prices in 2023 were primarily driven by a new supply arrangement associated with the sale of the rights for the olanzapine portfolio and lower realized prices from Trulicity, Verzenio, and Humalog.

The following table summarizes our revenue, including net product revenue and collaboration and other revenue, by product in 2023 compared with 2022:

	Year Ended December 31,													
	2023											2022		
	U.S.			Outside U.S.			Total				Total		Percent Change	
Trulicity	\$	5,433.3		\$	1,699.2		\$	7,132.6		\$	7,439.7		(4)	
Mounjaro		4,834.2			328.9			5,163.1			482.5		NM	
Verzenio		2,509.0			1,354.3			3,863.4			2,483.5		56	
Taltz		1,831.6			928.0			2,759.6			2,482.0		11	
Jardiance ⁽¹⁾		1,600.4			1,144.2			2,744.7			2,066.0		33	
Zyprexa ⁽²⁾		79.4			1,615.4			1,694.8			336.9		NM	
Humalog ⁽³⁾		863.2			800.2			1,663.3			2,060.6		(19)	
Cyramza®		402.3			572.4			974.7			971.4		—	
Olumiant® ⁽⁴⁾		225.5			697.2			922.6			830.5		11	
Humulin®		610.1			242.0			852.1			1,019.4		(16)	
Basaglar® ⁽⁵⁾		443.1			285.2			728.3			760.4		(4)	
Emgality®		482.2			196.0			678.3			650.9		4	
Baqsimi		645.7			31.9			677.6			139.3		NM	
Erbix®		528.9			67.6			596.5			566.5		5	
Forteo®		335.5			197.7			533.2			613.1		(13)	
Cialis®		26.1			355.3			381.5			587.3		(35)	
Alimta		72.9			144.6			217.5			927.7		(77)	
Zepbound		175.8			—			175.8			—		NM	
COVID-19 antibodies ⁽⁶⁾		—			—			—			2,023.5		NM	
Other products		691.8			1,673.0			2,364.5			2,100.2		13	
Revenue	\$	21,791.0		\$	12,333.1		\$	34,124.1		\$	28,541.4		20	

Numbers may not add due to rounding.

NM - not meaningful

⁽¹⁾ Jardiance revenue includes Glyxambi®, Synjardy®, and Trijardy® XR.

⁽²⁾ Zyprexa revenue includes sale of the rights for the olanzapine portfolio.

⁽³⁾ Humalog revenue includes insulin lispro.

⁽⁴⁾ Olumiant revenue includes sales for baricitinib that were made pursuant to Emergency Use Authorization (EUA) or similar regulatory authorizations.

⁽⁵⁾ Basaglar revenue includes Rezvoglar®.

⁽⁶⁾ COVID-19 antibodies include sales for bamlanivimab administered alone, for bamlanivimab and etesevimab administered together, and for bebtelovimab and were made pursuant to EUAs or similar regulatory authorizations.

Revenue of Trulicity decreased 4 percent in the U.S., driven by lower realized prices due to higher contracted rebates and unfavorable segment mix, as well as changes to estimates for rebates and discounts, partially offset by increased demand. We have experienced and continue to expect intermittent delays fulfilling orders of Trulicity. These delays have impacted and are expected to continue to impact volume. Revenue outside the U.S. decreased 3 percent, primarily driven by lower realized prices, partially offset by increased volume. Volumes in international markets

continue to be affected by actions we have taken to manage demand amid tight supply, including measures to minimize impact to existing patients.

Revenue of Mounjaro in the U.S. in 2023 was \$4.83 billion, compared to \$366.6 million in 2022, reflecting higher realized prices due to decreased utilization of savings card programs as access continued to expand and increased demand. We have experienced and continue to expect intermittent delays fulfilling orders of certain Mounjaro doses given significant demand, which has affected and is expected to continue to affect volume.

Revenue of Verzenio increased 52 percent in the U.S., driven by increased demand, and, to a lesser extent, higher realized prices. Revenue outside the U.S. increased 63 percent, driven by increased demand, partially offset by lower realized prices and the unfavorable impact of foreign exchange rates.

Revenue of Taltz increased 6 percent in the U.S., driven by increased demand, partially offset by lower realized prices. Revenue outside the U.S. increased 23 percent, driven by increased volume, partially offset by lower realized prices.

Revenue of Jardiance increased 34 percent in the U.S., primarily driven by increased demand. Revenue outside the U.S. increased 31 percent, primarily driven by increased volume. See Note 4 to the consolidated financial statements for information regarding our collaboration with Boehringer Ingelheim involving Jardiance.

There was no worldwide revenue from COVID-19 antibodies in 2023, and we do not anticipate any future revenue from COVID-19 antibodies.

Gross Margin, Costs, and Expenses

The following table summarizes our gross margin, costs, and expenses:

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

NM - not meaningful

Gross margin as a percent of revenue in 2023 increased 2.4 percentage points compared with 2022, primarily driven by the absence of COVID-19 antibodies sales in 2023, higher realized prices, and the sales of the rights for the olanzapine portfolio and Baqsimi, partially offset by increased manufacturing expenses related to labor costs and investments in capacity expansion.

Research and development expenses increased 30 percent in 2023, primarily driven by development expenses for late-stage assets and additional investments in early-stage research.

Marketing, selling, and administrative expenses increased 15 percent in 2023, primarily driven by costs associated with launches of new products and indications, as well as compensation and benefits costs.

Acquired IPR&D charges recognized in 2023 primarily related to acquisitions of DICE, Versanis, Emergence, and Mablink and from a business development transaction with Beam Therapeutics Inc. Acquired IPR&D charges recognized in 2022 included the buy-out of substantially all future obligations that were contingent upon the occurrence of certain events linked to the success of our mutant-selective PI3kα inhibitor and a purchase of a Priority Review Voucher. See Note 3 to the consolidated financial statements for additional information.

Asset impairment, restructuring, and other special charges recognized in 2022 primarily related to an intangible asset impairment for GBA1 Gene Therapy due to changes in estimated launch timing. See Note 5 to the consolidated financial statements for additional information.

Other—net, (income) expense included net investment losses on equity securities of \$20.2 million and \$410.7 million for the years ended 2023 and 2022, respectively. See Note 18 to the consolidated financial statements for additional information.

Our effective tax rate was 20.1 percent in 2023, compared with an effective tax rate of 8.3 percent in 2022. The higher effective tax rate for 2023 was primarily driven by the tax impacts of non-deductible acquired IPR&D charges, the new Puerto Rico tax regime, and a lower net discrete tax benefit compared to 2022.

Operating Results—2022

For a discussion of our results of operations pertaining to 2022 and 2021 see Item 7, "Management's Discussion and Analysis of Results of Operations and Financial Condition" in our Annual Report on Form 10-K for the year ended December 31, 2022.

FINANCIAL CONDITION AND LIQUIDITY

We believe our available cash and cash equivalents, together with our ability to generate operating cash flow and our access to short-term and long-term borrowings, are sufficient to fund our existing and planned capital requirements, which include:

- working capital requirements, including related to employee payroll and benefits, clinical trials, manufacturing materials, and taxes;
- capital expenditures;
- share repurchases and dividends;
- repayment of outstanding short-term and long-term borrowings;
- milestone and royalty payments;
- potential business development activities, including acquisitions, collaborations, investments, and licensing arrangements; and
- contributions to our defined benefit pension and retiree health benefit plans.

Our management continuously evaluates our liquidity and capital resources, including our access to external capital, to ensure we can adequately and efficiently finance our capital requirements. As of December 31, 2023, our material cash requirements primarily related to purchases of goods and services to produce our products and conduct our operations, capital expenditures, dividends, repayment of outstanding borrowings, milestone and royalty payments, business development activities, and the remaining obligations for the one-time repatriation transition tax (also known as the 'Toll Tax') from the 2017 Tax Act, (see Notes 11, 4, 3, and 14 to the consolidated financial statements). We anticipate our cash requirements related to ordinary course purchases of goods and services will be consistent with our past levels relative to revenues.

Capital expenditures were \$3.45 billion during 2023, compared to \$1.85 billion in 2022. We are making investments in new facilities in Indiana, North Carolina, Alzey, Rhineland-Palatinate, Germany, and Limerick, Ireland to manufacture existing and future products. These investments, and other capital investments that support our operations, have increased our capital expenditures and will result in higher capital expenditures over the next several years.

Cash and cash equivalents increased to \$2.82 billion as of December 31, 2023, compared with \$2.07 billion at December 31, 2022. Net cash provided by operating activities decreased to \$4.24 billion in 2023, compared with \$7.59 billion in 2022. The decrease in net cash provided by operating activities was primarily driven by an increase in cash payments for income taxes. See Note 14 to the consolidated financial statements for additional information. Refer to the consolidated statements of cash flows for additional information on the significant sources and uses of cash for the years ended December 31, 2023 and 2022.

In addition to our cash and cash equivalents, we held total investments of \$3.16 billion and \$3.05 billion as of December 31, 2023 and 2022, respectively. See Note 7 to the consolidated financial statements for additional information.

In 2023, we received cash proceeds of \$1.60 billion for the sale of product rights, primarily related to the sales of the rights for the olanzapine portfolio, including Zyprexa, and Baqsimi. See Note 4 to the consolidated financial statements for additional information.

For investments that were accounted for as asset acquisitions, we paid \$3.94 billion in 2023 for acquired IPR&D primarily related to acquisitions of DICE, Versanis, Emergence, and Mablink. For investments that were accounted for as business combinations, we paid \$1.04 billion in 2023 primarily related to the acquisition of POINT. See Note 3 to the consolidated financial statements for additional information.

As of December 31, 2023, total debt was \$25.23 billion, an increase of \$8.99 billion compared with \$16.24 billion at December 31, 2022. See Note 11 to the consolidated financial statements for additional information.

In February 2024, we issued \$1.00 billion of 4.500 percent fixed-rate notes due in 2027, \$1.00 billion of 4.500 percent fixed-rate notes due in 2029, \$1.50 billion of 4.700 percent fixed-rate notes due in 2034, \$1.50 billion of 5.000 percent fixed-rate notes due in 2054, and \$1.50 billion of 5.100 percent fixed-rate notes due in 2064, all with interest to be paid semi-annually. We used, or will be using, the net cash proceeds from the offering of \$6.45 billion for general business purposes, including the repayment of outstanding commercial paper, repayment of current maturities of long-term debt, and repayment of the \$750.0 million of 5.000 percent fixed-rate notes due in 2026, which are callable at par beginning February 27, 2024.

As of December 31, 2023, we had a total of \$7.42 billion of unused committed bank credit facilities, \$7.00 billion of which is available to support our commercial paper program. See Note 11 to the consolidated financial statements for additional information. We believe that amounts accessible through existing commercial paper markets should be adequate to fund short-term borrowing needs.

Dividends of \$4.52 per share and \$3.92 per share were paid in 2023 and 2022, respectively. The quarterly dividend was increased to \$1.30 per share effective for the dividend to be paid in the first quarter of 2024, resulting in an indicated annual rate for 2024 of \$5.20 per share.

In 2023, we repurchased \$750.0 million of shares under our \$5.00 billion share repurchase program that our board authorized in May 2021. As of December 31, 2023, we had \$2.50 billion remaining under this program. See Note 13 to the consolidated financial statements for additional information.

See "—Executive Overview—Other Matters—Patent Matters" for information regarding losses of patent protection.

Both domestically and abroad, we continue to monitor the potential impacts of the economic environment and international tension and conflicts; the creditworthiness of our wholesalers and other customers, including foreign government-backed agencies and suppliers; the uncertain impact of healthcare legislation; and various international government funding levels.

In the normal course of business, our operations are exposed to fluctuations in interest rates, currency values, and fair values of equity securities. These fluctuations impact the costs of financing, investing, and operating our business. We seek to address a portion of these risks through a controlled program of risk management that includes the use of derivative financial instruments. The objective of this risk management program is to limit the impact on earnings of fluctuations in interest and currency exchange rates. All derivative activities are for purposes other than trading.

Our primary interest rate risk exposure results from changes in short-term U.S. dollar interest rates. In an effort to manage interest rate exposures, we strive to achieve an acceptable balance between fixed and floating rate debt positions and in some cases we enter into interest rate derivatives to help maintain that balance. As of December 31, 2023, all of our total long-term debt is at a fixed rate. We have converted approximately 12 percent of our long-term fixed-rate notes to floating rates through the use of interest rate swaps. Based on our overall interest rate exposure at December 31, 2023 and 2022, including derivatives and other interest rate risk-sensitive instruments, a hypothetical 10 percent change in interest rates applied to the fair value of the instruments as of December 31, 2023 and 2022, respectively, would not have a material impact on earnings, cash flows, or fair values of interest rate risk-sensitive instruments over a one-year period.

Our foreign currency risk exposure results from fluctuating currency exchange rates, primarily the U.S. dollar against the euro, Japanese yen, and Chinese yuan. We face foreign currency exchange exposures when we enter into transactions arising from subsidiary trade and loan payables and receivables denominated in foreign currencies. We also face currency exposure that arises from translating the results of our global operations to the U.S. dollar at exchange rates that have fluctuated from the beginning of the period. We in some cases enter into foreign currency forward or option derivative contracts to reduce the effect of fluctuating currency exchange rates (primarily the euro, Chinese yuan, and Japanese yen). Our corporate risk-management policy outlines the minimum and maximum hedge coverage of such exposures. Gains and losses on these derivative contracts offset, in part, the impact of currency fluctuations on the existing assets and liabilities. We periodically analyze the fair values of the outstanding foreign currency derivative contracts to determine their sensitivity to changes in foreign exchange rates. A hypothetical 10 percent change in exchange rates (primarily against the U.S. dollar) applied to the fair values of our outstanding foreign currency derivative contracts as of December 31, 2023 and 2022, would not have a material impact on earnings, cash flows, or financial position over a one-year period. This sensitivity analysis does not consider the impact that hypothetical changes in exchange rates would have on the underlying foreign currency denominated transactions.

Our fair value risk exposure relates primarily to our public equity investments and to our equity investments that do not have readily determinable fair values. As of December 31, 2023 and 2022, our carrying values of these investments were \$1.32 billion and \$1.16 billion, respectively. A hypothetical 20 percent change in fair value of the equity instruments would have impacted other-net, (income) expense by \$263.9 million and \$232.4 million as of December 31, 2023 and 2022, respectively.

We have no off-balance sheet arrangements that have a material current effect or that are reasonably likely to have a material future effect on our financial condition, changes in financial condition, revenues or expenses, results of operations, liquidity, capital expenditures, or capital resources. We acquire and collaborate on potential products still in development and enter into research and development arrangements with third parties that often require milestone and royalty payments to the third party contingent upon the occurrence of certain future events linked to the success of the asset in development. Milestone payments may be required contingent upon the successful achievement of an important point in the development life cycle of the pharmaceutical product (e.g., approval for marketing by the appropriate regulatory agency or upon the achievement of certain sales levels). If required by the arrangement, we may make royalty payments based upon a percentage of the sales of the product in the event that regulatory approval for marketing is obtained.

Individually, these arrangements are generally not material in any one annual reporting period. However, if milestones for multiple products covered by these arrangements were reached in the same reporting period, the aggregate expense or aggregate milestone payments made could be material to our results of operations or cash flows, respectively, in that period. See Note 4 to the consolidated financial statements for additional information. These arrangements often give us the discretion to unilaterally terminate development of the product, which would allow us to avoid making the contingent payments; however, we are unlikely to cease development if the compound successfully achieves milestone objectives. We view these payments as positive because they signify that the product is successfully moving through development and is now generating or is more likely to generate cash flows from sales of products.

As we expand our manufacturing capacity in order to meet existing and expected demand of our incretin products, we have entered, and expect to continue to enter, into various agreements for contract manufacturing and for supply of materials. The executed agreements could, under certain circumstances, require us to pay up to approximately \$10 billion if we do not purchase specified amounts of goods or services over the durations of the agreements, which generally range from 2 to 8 years.

APPLICATION OF CRITICAL ACCOUNTING ESTIMATES

In preparing our financial statements in accordance with accounting principles generally accepted in the U.S., we must often make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues, expenses, and related disclosures. Some of those judgments can be subjective and complex, and consequently actual results could differ from those estimates. For any given individual estimate or assumption we make, it is possible that other people applying reasonable judgment to the same facts and circumstances could develop different estimates. We believe that, given current facts and circumstances, it is unlikely that applying any such other reasonable judgment would cause a material adverse effect on our consolidated results of operations, financial position, or liquidity for the periods presented in this Annual Report on Form 10-K. Our most critical accounting estimates have been discussed with our audit committee and are described below.

Revenue Recognition and Sales Return, Rebate, and Discount Accruals

Background and Uncertainties

We recognize revenue primarily from two different types of contracts, product sales to customers (net product revenue) and collaborations and other arrangements. For product sales to customers, provisions for returns, rebates and discounts are established in the same period the related product sales are recognized. To determine the appropriate transaction price for our product sales at the time we recognize a sale to a direct customer, we estimate any rebates or discounts that ultimately will be due to the direct customer and other customers in the distribution chain under the terms of our contracts. Significant judgments are required in making these estimates. The largest of our sales rebate and discount amounts include rebates associated with sales covered by managed care, Medicare, Medicaid, and chargeback programs, as well as reductions in revenue related to our patient assistance programs, in the U.S. In determining the appropriate accrual amount, we consider our historical rebate payments for these programs, as well as patient assistance program costs, by product as a percentage of our historical sales as well as any significant changes in sales trends (e.g., patent expiries and product launches), an evaluation of the current contracts for these programs, the percentage of our products that are sold via these programs, and our product pricing. Although we accrue a liability for revenue reductions related to these programs at the time we record the sale, the reduction related to that sale is typically paid up to six months later. Because of this time lag, in any particular period our net product revenue may incorporate revisions of accruals for several periods.

Refer to Note 2 to the consolidated financial statements for further information on revenue recognition and sales return, rebate, and discount accruals.

Revenue recognized from collaborations and other arrangements includes our share of profits from the collaborations, as well as royalties, upfront and milestone payments we receive under these types of contracts.

Financial Statement Impact

We believe that our accruals for sales returns, rebates, and discounts are reasonable and appropriate based on current facts and circumstances. Our rebate and discount liabilities are included in sales rebates and discounts on our consolidated balance sheet. Our sales return liability is included in other current liabilities and other noncurrent liabilities on our consolidated balance sheet. As of December 31, 2023, a 5 percent change in our consolidated sales return, rebate, and discount liability would result in a change in revenue of approximately \$615 million.

The portion of our consolidated sales return, rebate, and discount liability resulting from sales of our products in the U.S. was approximately 90 percent as of December 31, 2023 and 2022.

The following represents a roll-forward of our most significant U.S. sales return, rebate, and discount liability balances, including managed care, Medicare, Medicaid, chargeback, and patient assistance programs:

	2023	2022
Sales return, rebate, and discount liabilities, beginning of year	\$ 8,214.1	\$ 6,161.6
Reduction of net sales ⁽¹⁾	37,866.8	28,398.4
Cash payments	(35,413.4)	(26,345.9)
Sales return, rebate, and discount liabilities, end of year	\$ 10,667.5	\$ 8,214.1

⁽¹⁾ Adjustments of the estimates for these returns, rebates, and discounts to actual results were less than 1 percent of consolidated revenue for each of the years presented.

The increase in reduction of net sales in 2023 was primarily driven by our incretin products due to the increase in volume of rebates for managed care, Medicare, chargebacks, and Medicaid programs.

Litigation Liabilities and Other Contingencies

Background and Uncertainties

Litigation liabilities and other contingencies are, by their nature, uncertain and based upon complex judgments and probabilities. The factors we consider in developing our litigation liability reserves and other contingent liability amounts include the merits and jurisdiction of the litigation, the nature and the number of other similar current and past matters, the nature of the product and the current assessment of the science subject to the litigation, as applicable, and the likelihood of settlement and current state of settlement discussions, if any. In addition, we accrue for certain product liability claims incurred but not filed to the extent we can formulate a reasonable estimate of their costs based primarily on historical claims experience and data regarding product usage.

We also consider the insurance coverage we have to diminish the exposure for periods covered by insurance. In assessing our insurance coverage, we consider the policy coverage limits and exclusions, the potential for denial of coverage by the insurance company, the financial condition of the insurers, and the possibility of and length of time for collection. Due to a very restrictive market for liability insurance, we are predominantly self-insured for liability losses for all our currently and previously marketed products, as well as for litigation or investigations related to our pricing practices or other similar matters. In addition to insurance coverage, we consider any third-party indemnification to which we are entitled or under which we are obligated. With respect to our third-party indemnification rights, these considerations include the nature of the indemnification, the financial condition of the indemnifying party, and the possibility of and length of time for collection.

The litigation accruals and environmental liabilities and the related estimated insurance recoverables are reflected on a gross basis as liabilities and assets, respectively, on our consolidated balance sheets.

Acquisitions

Background and Uncertainties

To determine whether acquisitions or licensing transactions should be accounted for as a business combination or as an asset acquisition, we make certain judgments, which include assessing whether the acquired set of activities and assets would meet the definition of a business under the relevant accounting rules.

If the acquired set of activities and assets meets the definition of a business, assets acquired and liabilities assumed are required to be recorded at their respective fair values on our consolidated balance sheet as of the acquisition date. The excess of the purchase price over the fair value of the acquired net assets, where applicable, is recorded as goodwill. If the acquired set of activities and assets does not meet the definition of a business, the transaction is recorded as an acquisition of assets and, therefore, any acquired IPR&D that does not have an alternative future use is charged to acquired IPR&D on our consolidated statement of operations at the acquisition date, and goodwill is not recorded. See Note 3 to the consolidated financial statements for additional information.

The judgments made in determining estimated fair values assigned to assets acquired and liabilities assumed in a business combination, as well as estimated asset lives, can materially affect our consolidated results of operations. The fair values of intangible assets, including acquired IPR&D, are determined using information available near the acquisition date based on estimates and assumptions that are deemed reasonable by management. Significant estimates and assumptions include, but are not limited to, probability of technical success, revenue projections, and discount rate. Depending on the facts and circumstances, we may deem it necessary to engage an independent valuation expert to assist in valuing significant assets and liabilities.

The fair values of identifiable intangible assets are primarily determined using an "income method," as described in Note 8 to the consolidated financial statements.

The fair value of any contingent consideration liability that results from a business combination is primarily determined using a discounted cash flow analysis, as described in Note 7 to the consolidated financial statements. Estimating the fair value of contingent consideration requires the use of significant estimates and judgments, including, but not limited to, probability of technical success, timing of the potential milestone event, and the discount rate.

Financial Statement Impact

As of December 31, 2023, a 5 percent change in the contingent consideration liabilities would result in a change in income before income taxes of \$5.2 million.

Impairment of Indefinite-Lived and Long-Lived Assets

Background and Uncertainties

We review the carrying value of long-lived assets (both intangible and tangible) for potential impairment whenever events or changes in circumstances indicate the carrying value of an asset (or asset group) may not be recoverable. We identify impairment by comparing the projected undiscounted cash flows to be generated by the asset (or asset group) to its carrying value. If an impairment is identified, a loss is recorded equal to the excess of the asset's net book value over its fair value, and the cost basis is adjusted.

Goodwill and indefinite-lived intangible assets are reviewed for impairment at least annually, or more frequently if impairment indicators are present, by first assessing qualitative factors to determine whether it is more likely than not that the fair value of the asset is less than its carrying amount. If we conclude it is more likely than not that the fair value is less than the carrying amount, a quantitative test that compares the fair value of the intangible asset to its carrying value is performed to determine the amount of any impairment.

Several methods may be used to determine the estimated fair value of acquired IPR&D, all of which require multiple assumptions. We utilize the "income method," as described in Note 8 to the consolidated financial statements.

For acquired IPR&D assets, the risk of failure has been factored into the fair value measure and there can be no certainty that these assets ultimately will yield a successful product, as discussed previously in "—Executive Overview —Late-Stage Pipeline." The nature of the pharmaceutical business is high-risk and requires that we invest in a large number of projects to maintain a successful portfolio of approved products. As such, it is likely that some acquired IPR&D assets will become impaired in the future.

Estimates of future cash flows, based on what we believe to be reasonable and supportable assumptions and projections, require management's judgment. Actual results could vary materially from these estimates.

Retirement Benefits Assumptions

Background and Uncertainties

Defined benefit pension plan and retiree health benefit plan costs include assumptions for the discount rate, expected return on plan assets, and retirement age. These assumptions have a significant effect on the amounts reported. In addition to the analysis below, see Note 15 to the consolidated financial statements for additional information regarding our retirement benefits.

Annually, we evaluate the discount rate and the expected return on plan assets in our defined benefit pension and retiree health benefit plans. We use an actuarially determined, plan-specific yield curve of high quality, fixed income debt instruments to determine the discount rates. In evaluating the expected return on plan assets, we consider many factors, with a primary analysis of current and projected market conditions, asset returns and asset allocations (approximately 70 percent of which are growth investments), and the views of leading financial advisers and economists. We may also review our historical assumptions compared with actual results, as well as the discount rates and expected return on plan assets of other companies, where applicable. In evaluating our expected retirement age assumption, we consider the retirement ages of our past employees eligible for pension and medical benefits together with our expectations of future retirement ages.

Annually, we determine the fair value of the plan assets in our defined benefit pension and retiree health benefit plans. Approximately 48 percent of our plan assets are in hedge funds and private equity-like investment funds (collectively, alternative investments). We value these alternative investments primarily using net asset values (NAVs) reported by the counterparty and adjusted for known cash flows and significant events.

Financial Statement Impact

If the 2023 discount rate for the U.S. defined benefit pension and retiree health benefit plans (U.S. plans) were to change by a quarter percentage point, income before income taxes would change by \$13.4 million. If the 2023 expected return on plan assets for U.S. plans were to change by a quarter percentage point, income before income taxes would change by \$31.3 million. If our assumption regarding the 2023 expected age of future retirees for U.S. plans were adjusted by one year, our income before income taxes would be affected by \$35.1 million. The U.S. plans, including Puerto Rico, represent approximately 80 percent for total projected benefit obligation and 85 percent for total plan assets at December 31, 2023.

Adjustments to the fair value of plan assets are not recognized in pension and retiree health benefit expense in the year that the adjustments occur. Such changes are deferred, along with other actuarial gains and losses, and are amortized into expense over the expected remaining service life of employees.

Income Taxes

Background and Uncertainties

We file tax returns based upon our interpretation of tax laws and regulations, and we record estimates in our financial statements based upon these interpretations at the applicable tax rates in the jurisdictions in which we operate. Our tax returns are routinely subject to examination by taxing authorities, which could result in future tax, interest, and penalty assessments. Inherent uncertainties also exist in estimates of many tax positions due to the complexity of tax laws. We recognize the tax benefit from an uncertain tax position only if it is more likely than not that the tax position will be sustained upon examination by the taxing authorities, based on the technical merits of the position. The tax benefits recognized in the financial statements from such a position are measured based on the largest benefit that has a greater than 50 percent likelihood of being realized upon ultimate resolution. The amount of unrecognized tax benefits is adjusted for changes in facts and circumstances such as changes to existing tax law, the issuance of regulations by taxing authorities, new information obtained during a tax examination, or resolution of a tax examination. We believe our estimates for uncertain tax positions are both appropriate and sufficient to pay assessments that may result from examinations of our tax returns. We recognize both accrued interest and penalties related to unrecognized tax benefits in income tax expense.

We have recorded valuation allowances against certain of our deferred tax assets, primarily those that have been generated from net operating losses, tax credits, and other tax carryforwards and carrybacks in certain taxing jurisdictions. In evaluating whether we would more likely than not recover these deferred tax assets, we have not assumed future taxable income in the jurisdictions associated with these carryforwards where history does not support such an assumption. Implementation of tax planning strategies to recover these deferred tax assets or to generate future taxable income in these jurisdictions could lead to the reversal of all or a portion of these valuation allowances and a reduction of income tax expense.

Financial Statement Impact

As of December 31, 2023, a 5 percent change in the amount of uncertain tax positions and the valuation allowance would result in a change in net income of \$88.7 million and \$45.7 million, respectively.

LEGAL AND REGULATORY MATTERS

Information relating to certain legal proceedings can be found in Note 16 to the consolidated financial statements and is incorporated here by reference.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

You can find quantitative and qualitative disclosures about market risk (e.g., interest rate risk) at Item 7, "Management's Discussion and Analysis - Financial Condition and Liquidity." That information is incorporated by reference herein.

Item 8. Financial Statements and Supplementary Data

Consolidated Statements of Operations

ELI LILLY AND COMPANY AND SUBSIDIARIES (Dollars in millions, except per-share data, and shares in thousands)	Year Ended December 31	2023	2022	2021
Revenue (Note 2)		\$ 34,124.1	\$ 28,541.4	\$ 28,318.4
Costs, expenses, and other:				
Cost of sales		7,082.2	6,629.8	7,312.8
Research and development		9,313.4	7,190.8	6,930.7
Marketing, selling, and administrative		7,403.1	6,440.4	6,431.6
Acquired in-process research and development (Note 3)		3,799.8	908.5	970.1
Asset impairment, restructuring, and other special charges (Note 5)		67.7	244.6	316.1
Other—net, (income) expense (Note 18)		(96.7)	320.9	201.6
		27,569.5	21,735.0	22,162.9
Income before income taxes		6,554.6	6,806.4	6,155.5
Income taxes (Note 14)		1,314.2	561.6	573.8
Net income		\$ 5,240.4	\$ 6,244.8	\$ 5,581.7
Earnings per share:				
Basic		\$ 5.82	\$ 6.93	\$ 6.15
Diluted		\$ 5.80	\$ 6.90	\$ 6.12
Shares used in calculation of earnings per share:				
Basic		900,181	901,736	906,963
Diluted		903,284	904,619	911,681

See notes to consolidated financial statements.

Consolidated Statements of Comprehensive Income (Loss)

ELI LILLY AND COMPANY AND SUBSIDIARIES (Dollars in millions)	Year Ended December 31	2023		2022		2021	
Net income		\$ 5,240.4		\$ 6,244.8		\$ 5,581.7	
Other comprehensive income (loss):							
Change in foreign currency translation gains (losses)		(25.8)		(248.1)		13.5	
Change in net unrealized gains (losses) on available-for-sale securities		14.1		(53.2)		(15.9)	
Change in retirement benefit plans (Note 15)		(776.5)		616.9		2,699.4	
Change in net unrealized gains (losses) on cash flow hedges		109.5		432.9		151.6	
Other comprehensive income (loss) before income taxes		(678.7)		748.5		2,848.6	
Benefit (expense) for income taxes related to other comprehensive income (loss)		196.3		(250.0)		(695.3)	
Other comprehensive income (loss), net of tax (Note 17)		(482.4)		498.5		2,153.3	
Comprehensive income		\$ 4,758.0		\$ 6,743.3		\$ 7,735.0	

See notes to consolidated financial statements.

Consolidated Balance Sheets

ELI LILLY AND COMPANY AND SUBSIDIARIES				December 31				2023				2022											
(Dollars in millions, shares in thousands)																							
Assets																							
Current Assets																							
Cash and cash equivalents (Note 7)				\$				2,818.6				\$				2,067.0							
Short-term investments (Note 7)								109.1								144.8							
Accounts receivable, net of allowances of \$14.8 (2023) and \$16.0 (2022)								9,090.5								6,896.0							
Other receivables								2,245.7								1,662.9							
Inventories (Note 6)								5,772.8								4,309.7							
Prepaid expenses								5,540.8								2,946.8							
Other current assets								149.5								7.3							
Total current assets								25,727.0								18,034.5							
Investments (Note 7)								3,052.2								2,901.8							
Goodwill (Note 8)								4,939.7								4,073.0							
Other intangibles, net (Note 8)								6,906.6								7,206.6							
Deferred tax assets (Note 14)								5,477.3								2,792.9							
Property and equipment, net (Note 9)								12,913.6								10,144.0							
Other noncurrent assets								4,989.9								4,337.0							
Total assets								\$				64,006.3				\$				49,489.8			
Liabilities and Equity																							
Current Liabilities																							
Short-term borrowings and current maturities of long-term debt (Note 11)								\$				6,904.5				\$				1,501.1			
Accounts payable								2,598.8								1,930.6							
Employee compensation								1,650.4								1,059.8							
Sales rebates and discounts								11,689.0								8,784.1							
Dividends payable								1,169.2								1,017.2							
Other current liabilities								3,281.3								2,845.4							
Total current liabilities								27,293.2								17,138.2							
Noncurrent Liabilities																							
Long-term debt (Note 11)								18,320.8								14,737.5							
Accrued retirement benefits (Note 15)								1,438.8								1,305.1							
Long-term income taxes payable (Note 14)								3,849.2								3,709.6							
Other noncurrent liabilities								2,240.6								1,824.0							
Total noncurrent liabilities								25,849.4								21,576.2							
Commitments and Contingencies (Note 16)																							
Eli Lilly and Company Shareholders' Equity (Notes 12 and 13)																							
Common stock—no par value																							
Authorized shares: 3,200,000																							
Issued shares: 949,781 (2023) and 950,632 (2022)								593.6								594.1							
Additional paid-in capital								7,250.4								6,921.4							
Retained earnings								10,312.3								10,042.6							
Employee benefit trust								(3,013.2)								(3,013.2)							
Accumulated other comprehensive loss (Note 17)								(4,327.0)								(3,844.6)							
Cost of common stock in treasury								(44.2)								(50.5)							
Total Eli Lilly and Company shareholders' equity								10,771.9								10,649.8							
Noncontrolling interests								91.8								125.6							

See notes to consolidated financial statements.

Consolidated Statements of Shareholders' Equity

See notes to consolidated financial statements.

Consolidated Statements of Cash Flows

ELI LILLY AND COMPANY AND SUBSIDIARIES (Dollars in millions)		Year Ended December 31	2023	2022	2021
Cash Flows from Operating Activities					
Net income			\$ 5,240.4	\$ 6,244.8	\$ 5,581.7
Adjustments to Reconcile Net Income to Cash Flows from Operating Activities:					
Depreciation and amortization			1,527.3	1,522.5	1,547.6
Debt extinguishment loss (Note 11)			—	—	405.2
Change in deferred income taxes			(2,341.0)	(2,185.2)	(802.3)
Stock-based compensation expense			628.5	371.1	342.8
Net investment (gains) losses			23.5	420.0	(178.0)
Gains on sale of product rights			(1,878.9)	(156.5)	(216.0)
Acquired in-process research and development (Note 3)			3,799.8	908.5	970.1
Other operating activities, net			295.5	461.3	727.4
Other changes in operating assets and liabilities, net of acquisitions and divestitures:					
Receivables—(increase) decrease			(2,451.0)	(299.6)	(1,278.3)
Inventories—(increase) decrease			(1,425.0)	(599.7)	(235.9)
Other assets—(increase) decrease			(3,453.4)	(793.5)	1,515.4
Accounts payable and other liabilities— increase (decrease)			4,274.4	1,692.0	(1,013.8)
Net Cash Provided by Operating Activities			4,240.1	7,585.7	7,365.9
Cash Flows from Investing Activities					
Purchases of property and equipment			(3,447.6)	(1,854.3)	(1,309.8)
Proceeds from sales and maturities of short-term investments			192.2	121.4	47.4
Purchases of short-term investments			(98.2)	(107.4)	(83.5)
Proceeds from sales of and distributions from noncurrent investments			508.1	342.2	800.0
Purchases of noncurrent investments			(730.8)	(600.2)	(929.9)
Proceeds from sale of product rights			1,604.3	95.8	216.0
Purchases of in-process research and development			(3,944.5)	(1,131.0)	(668.6)
Cash paid for acquisitions, net of cash acquired (Note 3)			(1,044.3)	(327.2)	(747.4)
Other investing activities, net			(191.9)	(302.2)	(191.7)
Net Cash Used for Investing Activities			(7,152.7)	(3,762.9)	(2,867.5)
Cash Flows from Financing Activities					
Dividends paid			(4,069.3)	(3,535.8)	(3,086.8)
Net change in short-term borrowings			4,691.4	1,498.0	(4.0)
Proceeds from issuance of long-term debt			3,958.5	—	2,410.8
Repayments of long-term debt			—	(1,560.0)	(1,905.4)
Purchases of common stock			(750.0)	(1,500.0)	(1,250.0)
Other financing activities, net			(335.0)	(308.9)	(295.9)
Net Cash Provided by (Used for) Financing Activities			3,495.6	(5,406.7)	(4,131.3)
Effect of exchange rate changes on cash and					

See notes to consolidated financial statements.

Notes to Consolidated Financial Statements

ELI LILLY AND COMPANY AND SUBSIDIARIES

(Tables present dollars in millions)

Note 1: Summary of Significant Accounting Policies and Implementation of New Financial Accounting Standards

Basis of Presentation

The accompanying consolidated financial statements include Eli Lilly and Company and all subsidiaries and have been prepared in accordance with accounting principles generally accepted in the United States (GAAP). We consider majority voting interests, as well as effective economic or other control over an entity when deciding whether or not to consolidate an entity. We generally do not have control by means other than voting interests. Where our ownership of consolidated subsidiaries is less than 100 percent, the noncontrolling shareholders' interests are reflected as a separate component of equity. All intercompany balances and transactions have been eliminated.

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues, expenses, and related disclosures at the date of the financial statements and during the reporting period. Actual results could differ from those estimates. We issued our financial statements by filing with the Securities and Exchange Commission (SEC) and have evaluated subsequent events up to the time of the filing of this Annual Report on Form 10-K.

We operate as a single operating segment engaged in the discovery, development, manufacturing, marketing, and sales of pharmaceutical products worldwide. A global research and development organization and a supply chain organization are responsible for the discovery, development, manufacturing, and supply of our products. Regional commercial organizations market, distribute, and sell the products. The business is also supported by global corporate staff functions. Our determination that we operate as a single segment is consistent with the financial information regularly reviewed by the chief operating decision maker for purposes of evaluating performance, allocating resources, setting incentive compensation targets, and planning and forecasting for future periods.

Research and Development Expenses and Acquired In-Process Research and Development (IPR&D)

Research and development costs are expensed as incurred. Research and development costs consist of expenses incurred in performing research and development activities, including but not limited to, compensation and benefits, facilities and overhead expense, clinical trial expense and fees paid to contract research organizations.

Acquired IPR&D includes the initial costs and development milestones incurred related to externally developed IPR&D projects, acquired directly in a transaction other than a business combination, that do not have an alternative future use. Development milestones are milestone payment obligations that are incurred prior to regulatory approval of the compound and are expensed when the event triggering an obligation to pay the milestone occurs.

Earnings Per Share (EPS)

All per-share amounts, unless otherwise noted in the footnotes, are presented on a diluted basis. We calculate basic EPS based on the weighted-average number of common shares outstanding plus the effect of incremental shares from potential participating securities. We calculate diluted EPS based on the weighted-average number of common shares outstanding plus the effect of incremental shares from our stock-based compensation programs.

Foreign Currency Translation

Operations in our subsidiaries outside the United States (U.S.) are recorded in the functional currency of each subsidiary which is determined by a review of the environment where each subsidiary primarily generates and expends cash. The results of operations for our subsidiaries outside the U.S. are translated from functional currencies into U.S. dollars using the weighted-average currency rate for the period. Assets and liabilities are translated using the period end exchange rates. The U.S. dollar effects that arise from translating the net assets of these subsidiaries are recorded in other comprehensive income (loss).

Advertising Expenses

Costs associated with advertising are expensed as incurred and are included in marketing, selling, and administrative expenses. Advertising expenses, comprised primarily of online marketing and television advertising, totaled \$1.12 billion, \$966.8 million, and \$1.24 billion in 2023, 2022, and 2021, respectively, which was less than 5 percent of revenue each year.

Other Significant Accounting Policies

Our other significant accounting policies are described in the remaining appropriate notes to the consolidated financial statements.

Reclassifications

Certain reclassifications have been made to prior periods in the consolidated financial statements and accompanying notes to conform with the current presentation. Development milestone payments related to externally developed IPR&D projects, acquired directly in a transaction other than a business combination, were previously included in cash flows from operating activities in the consolidated statements of cash flows and are now included in purchases of IPR&D in cash flows from investing activities. The reclassification resulted in an increase to net cash provided by operating activities and net cash used in investing activities of \$501.3 million and \$105.2 million in 2022 and 2021, respectively.

Implementation of New Financial Accounting Standards

Accounting Standards Update (ASU) 2023-09, *Income Taxes (Topic 740): Improvements to Income Tax Disclosures*, establishes incremental disaggregation of income tax disclosures pertaining to the effective tax rate reconciliation and income taxes paid. This standard is effective for fiscal years beginning after December 15, 2024, and requires prospective application with the option to apply it retrospectively. Early adoption is permitted. We intend to adopt this standard in our Annual Report on Form 10-K for the year ended December 31, 2025. We are currently evaluating the potential impact of adopting this standard on our disclosures.

ASU 2023-07, *Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures*, requires disclosures about significant segment expenses and additional interim disclosure requirements. This standard also requires a single reportable segment to provide all disclosures required by ASC 280. This standard is effective for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024. Early adoption is permitted, and the amendments should be applied retrospectively for all prior periods presented in the consolidated financial statements. We intend to adopt this standard in our Annual Report on Form 10-K for the year ended December 31, 2024. We are currently evaluating the potential impact of adopting this standard on our disclosures.

Note 2: Revenue

The following table summarizes our revenue recognized in our consolidated statements of operations:

We recognize revenue primarily from two different types of contracts, product sales to customers (net product revenue) and collaborations and other arrangements. Revenue recognized from collaborations and other arrangements includes our share of profits from the collaborations, as well as royalties, upfront and milestone payments we receive under these types of contracts. See Note 4 for additional information related to our collaborations and other arrangements. Collaboration and other revenue disclosed above includes the revenue from the Jardiance® and Trajenta® families of products resulting from our collaboration with Boehringer Ingelheim, as well as from the sales of rights for the olanzapine portfolio, including Zyprexa®, and for Baqsimi®, all of which are discussed in Note 4. Substantially all of the remainder of collaboration and other revenue is related to contracts accounted for as contracts with customers.

Net Product Revenue

Revenue from sales of products is recognized at the point where the customer obtains control of the goods and we satisfy our performance obligation, which generally is at the time we ship the product to the customer. Payment terms differ by jurisdiction and customer, but payment terms in most of our major jurisdictions typically range from 30 to 70 days from date of shipment. Revenue for our product sales has not been adjusted for the effects of a financing component as we expect, at contract inception, that the period between when we transfer control of the product and when we receive payment will be one year or less. Any exceptions are either not material or we collect interest for payments made after the due date. Provisions for rebates, discounts, and returns are established in the same period the related product sales are recognized. We generally ship product shortly after orders are received; therefore, we generally only have a few days of orders received but not yet shipped at the end of any reporting period. Shipping and handling activities are considered to be fulfillment activities and are not considered to be a separate performance obligation. We exclude from the measurement of the transaction price all taxes assessed by a governmental authority that are imposed on our sales of product and collected from a customer.

Most of our products are sold to wholesalers that serve pharmacies, physicians and other healthcare professionals, and hospitals. For the years ended December 31, 2023, 2022, and 2021, our three largest wholesalers each accounted for between 16 percent and 21 percent of consolidated revenue. Further, they each accounted for between 18 percent and 29 percent of accounts receivable as of December 31, 2023 and 2022.

Significant judgments must be made in determining the transaction price for our sales of products related to anticipated rebates, discounts, and returns. The following describe the most significant of these judgments:

Sales Rebates and Discounts - Background and Uncertainties

- We initially invoice our customers at contractual list prices. Contracts with direct and indirect customers may provide for various rebates and discounts that may differ in each contract. As a consequence, to determine the appropriate transaction price for our product sales at the time we recognize a sale to a direct customer, we estimate any rebates or discounts that ultimately will be due to the direct customer and other customers in the distribution chain under the terms of our contracts. Significant judgments are required in making these estimates.
- The rebate and discount amounts are recorded as a deduction to arrive at our net product revenue. Sales rebates and discounts that require the use of judgment in the establishment of the accrual include managed care, Medicare, Medicaid, chargebacks, long-term care, hospital, patient assistance programs, and various other programs. We estimate these accruals using an expected value approach.
- The largest of our sales rebate and discount amounts include rebates associated with sales covered by managed care, Medicare, Medicaid, and chargeback programs, as well as reductions in revenue related to our patient assistance programs, in the U.S. In determining the appropriate accrual amount, we consider our historical rebate payments for these programs, as well as patient assistance program costs, by product as a percentage of our historical sales as well as any significant changes in sales trends (e.g., patent expiries and product launches), an evaluation of the current contracts for these programs, the percentage of our products that are sold via these programs, and our product pricing. Although we accrue a liability for revenue reductions related to these programs at the time we record the sale, the reduction related to that sale is typically paid up to six months later. Because of this time lag, in any particular period our net product revenue may incorporate revisions of accruals for several periods.

- Most of our rebates outside the U.S. are contractual or legislatively mandated and are estimated and recognized in the same period as the related sales. In some large European countries, government rebates are based on the anticipated budget for pharmaceutical payments in the country. An estimate of these rebates, updated as governmental authorities revise budgeted deficits, is recognized in the same period as the related sale.

Sales Returns - Background and Uncertainties

- When product sales occur, to determine the appropriate transaction price for our sales, we estimate a reserve for future product returns related to those sales using an expected value approach. This estimate is based on several factors, including: historical return rates, expiration date by product (on average, approximately 24 months after the initial sale of a product to our customer), and estimated levels of inventory in the wholesale and retail channels, as well as any other specifically identified anticipated returns due to known factors such as the loss of patent exclusivity, product recalls and discontinuations, or a changing competitive environment. We maintain a returns policy that allows most U.S. customers to return most of our products for dating issues within a specified period prior to and subsequent to the product's expiration date. Following the loss of exclusivity for a patent-dependent product, we expect to experience an elevated level of product returns as product inventory remaining in the wholesale and retail channels expires. Adjustments to the returns reserve have been and may in the future be required based on revised estimates to our assumptions. We record the return amounts as a deduction to arrive at our net product revenue. Once the product is returned, it is destroyed; we do not record a right of return asset. Our returns policies outside the U.S. are generally more restrictive than in the U.S. as returns are not allowed for reasons other than failure to meet product specifications in many countries. Our reserve for future product returns for product sales outside the U.S. is not material.
- As a part of our process to estimate a reserve for product returns, we regularly review the supply levels of our significant products at the major wholesalers in the U.S. and in major markets outside the U.S., primarily by reviewing periodic inventory reports supplied by our major wholesalers and available prescription volume information for our products, or alternative approaches. We attempt to maintain U.S. wholesaler inventory levels at an average of approximately one month or less. Causes of unusual wholesaler buying patterns include actual or anticipated product-supply issues, weather patterns, anticipated changes in the transportation network, redundant holiday stocking, and changes in wholesaler business operations. In the U.S., the current structure of our arrangements provides us with data on inventory levels at our wholesalers; however, our data on inventory levels in the retail channel is more limited. Wholesaler stocking and destocking activity historically has not caused any material changes in the rate of actual product returns.
- Actual U.S. product returns have been less than 2 percent of our U.S. revenue during each of the past three years and have not fluctuated significantly as a percentage of revenue, although fluctuations are more likely in periods following loss of patent exclusivity for major products in the U.S. market.

Adjustments to Revenue

Adjustments to revenue recognized as a result of changes in estimates for our most significant U.S. sales returns, rebates, and discounts liability balances for products shipped in previous periods were less than 1 percent of U.S. revenue during each of the years ended December 31, 2023, 2022, and 2021.

Collaboration and Other Arrangements

We recognize several types of revenue from our collaborations and other arrangements, which we discuss in general terms immediately below and more specifically in Note 4 for each of our material collaborations and other arrangements. Our collaborations and other arrangements are evaluated to determine if the arrangements in their entirety, or contain aspects that, are contracts with customers.

- Revenue related to products we sell pursuant to these arrangements is included in net product revenue at the earlier of when control of the asset transfers to the other party or when the product has no alternative use to us and we have right to payment.
- Profit-sharing due from our collaboration partners, which is based upon gross margins reported to us by our partners, is recognized as collaboration and other revenue as earned.

- Royalty revenue from licensees and certain of our collaboration partners, which is based on sales to third parties of licensed products and technology, is recorded when the third-party sale occurs and the performance obligation to which some or all of the royalty has been allocated has been satisfied (or partially satisfied). This royalty revenue is included in collaboration and other revenue.
- The net gain or loss related to the sale of rights of a product is included in collaboration and other revenue when control of the asset transfers to the other party.
- For arrangements that involve variable consideration where we have sold intellectual property, we recognize revenue based on estimates of the amount of consideration we believe we will be entitled to receive from the other party, but only to the extent a significant reversal in the amount of revenue recognized is not probable of occurring when the uncertainties associated with the variable consideration are subsequently resolved. These estimates are adjusted to reflect the actual amounts to be collected when those facts and circumstances become known. Significant judgments must be made in determining the transaction price for our sales of intellectual property. Because of the risk that products in development will not receive regulatory approval, we generally do not recognize any contingent payments that would be due to us upon or after regulatory approval.
- For arrangements involving multiple goods or services (e.g., research and development, marketing and selling, manufacturing, and distribution), each required good or service is evaluated to determine whether it is distinct. If a good or service does not qualify as distinct, it is combined with the other non-distinct goods or services within the arrangement and these combined goods or services are treated as a single performance obligation for accounting purposes. The arrangement's transaction price is then allocated to each performance obligation based on the relative standalone selling price of each performance obligation.

Contract Liabilities

Our contract liabilities result from arrangements where we have received payment in advance of performance under the contract and do not include sales returns, rebates, and discounts. Changes in contract liabilities are generally due to either receipt of additional advance payments or our performance under the contract.

The following table summarizes contract liability balances:

	2023		2022	
Contract liabilities	\$	193.6	\$	219.2

The contract liabilities balances disclosed above as of December 31, 2023 and 2022 were primarily related to the remaining license period of symbolic intellectual property and obligations to supply product for a defined period of time.

During the years ended December 31, 2023, 2022, and 2021, revenue recognized from contract liabilities as of the beginning of the respective year was not material. Revenue expected to be recognized in the future from contract liabilities as the related performance obligations are satisfied is not expected to be material in any one year.

Disaggregation of Revenue

The following table summarizes revenue, including net product revenue and collaboration and other revenue, by product:

[illegible]

⁽⁴⁾ Olumiant revenue includes sales for baricitinib that were made pursuant to Emergency Use Authorization (EUA) or similar regulatory authorizations.

⁽⁵⁾ Zyprexa revenue includes sale of the rights for the olanzapine portfolio.

⁽⁶⁾ COVID-19 antibodies include sales for bamlanivimab administered alone, for bamlanivimab and etesevimab administered together, and for bebtelovimab and were made pursuant to EUAs or similar regulatory authorizations.

The following table summarizes revenue by geographical area:

	2023	2022	2021
Revenue ⁽¹⁾ :			
U.S.	\$ 21,791.0	\$ 18,190.0	\$ 16,811.0
Europe	6,174.7	4,299.2	4,776.8
Japan	1,672.6	1,747.3	2,367.0
China	1,539.7	1,452.8	1,661.4
Other foreign countries	2,946.2	2,852.0	2,702.2
Revenue	\$ 34,124.1	\$ 28,541.4	\$ 28,318.4

Numbers may not add due to rounding.

⁽¹⁾ Revenue is attributed to the countries based on the location of the customer or other party.

Note 3: Acquisitions

We engage in various forms of business development activities to enhance or refine our product pipeline, including acquisitions, collaborations, investments, and licensing arrangements. In connection with these arrangements, our partners may be entitled to future royalties and/or commercial milestones based on sales should products be approved for commercialization and/or milestones based on the successful progress of compounds through the development process.

In December 2023, December 2022, and January 2021, we completed the acquisitions of POINT Biopharma Global Inc. (POINT), Akouos, Inc. (Akouos), and Prevail Therapeutics Inc. (Prevail), respectively. These transactions, as further discussed below in Acquisitions of Businesses, were accounted for as business combinations under the acquisition method of accounting. Under this method, the assets acquired and liabilities assumed were recorded at their respective fair values as of the acquisition date in our consolidated financial statements. The determination of estimated fair value required management to make significant estimates and assumptions. The excess of the purchase price over the fair value of the acquired net assets, where applicable, has been recorded as goodwill. The results of operations of these acquisitions have been included in our consolidated financial statements from the date of acquisition.

We also acquired assets in development in 2023, 2022, and 2021, which are further discussed below in Asset Acquisitions. Upon each acquisition, the cost allocated to acquired IPR&D was immediately expensed as acquired IPR&D if the compound has no alternative future use. Milestone payment obligations incurred prior to regulatory approval of the compound are expensed when the event triggering an obligation to pay the milestone occurs. We recognized acquired IPR&D charges of \$3.80 billion, \$908.5 million, and \$970.1 million for the years ended December 31, 2023, 2022, and 2021, respectively.

Acquisitions of Businesses

POINT Acquisition

Overview of Transaction

In December 2023, we acquired all shares of POINT for a purchase price of \$12.50 per share in cash (or an aggregate of \$1.04 billion, net of cash acquired). Under the terms of the agreement, we acquired capabilities to advance our radiopharmaceutical discovery, development, and manufacturing efforts, as well as clinical and pre-clinical radioligand therapies in development for the treatment of cancer.

Assets Acquired and Liabilities Assumed

Our access to POINT information was limited prior to the acquisition. As a consequence, we are in the process of determining fair values and tax bases of a significant portion of the assets acquired and liabilities assumed, including the identification and valuation of intangible assets and tax exposures. The final determination of these amounts will be completed as soon as possible but no later than one year from the acquisition date. The final determination may result

in asset and liability fair values and tax bases that differ from the preliminary estimates and require changes to the preliminary amounts recognized.

The following table summarizes the preliminary amounts recognized for assets acquired and liabilities assumed as of the acquisition date:

Estimated Fair Value at December 27, 2023	
Cash	\$ 302.7
Acquired IPR&D	196.0
Goodwill ⁽¹⁾	859.1
Other assets and liabilities, net	(19.3)
Acquisition date fair value of consideration transferred	1,338.5
Less:	
Cash acquired	(302.7)
Cash paid, net of cash acquired	\$ 1,035.8

⁽¹⁾ The goodwill recognized from this acquisition is attributable primarily to the radiopharmaceutical discovery, development, and manufacturing capabilities and the assembled workforce for POINT, which is not deductible for tax purposes.

The results of operations attributable to POINT for the year ended December 31, 2023 were immaterial.

Pro forma information has not been included as this acquisition did not have a material impact on our consolidated statements of operations for the years ended December 31, 2023 and 2022.

Akouos Acquisition

Overview of Transaction

In December 2022, we acquired all shares of Akouos for a purchase price that included \$12.50 per share in cash (or an aggregate of \$327.2 million, net of cash acquired) plus one non-tradable contingent value right (CVR) per share. The CVR entitles the Akouos shareholders up to an additional \$3.00 per share in cash (or an aggregate of approximately \$122 million) payable, subject to certain terms and conditions, upon the achievement of certain specified milestones prior to December 2028.

Under the terms of the agreement, we acquired potential gene therapy treatments for hearing loss and other inner ear conditions. The lead gene therapies in clinical development that we acquired included GJB2 (which encodes connexin 26) for a common form of monogenic deafness and hearing loss; AK-OTOF for hearing loss due to mutations in the otoferlin gene; AK-CLRN1 for Usher Type 3A, an autosomal recessive disorder characterized by progressive loss of both hearing and vision; and AK-antiVEGF for vestibular schwannoma.

Assets Acquired and Liabilities Assumed

The following table summarizes the amounts recognized for assets acquired and liabilities assumed as of the acquisition date:

Estimated Fair Value at December 1, 2022	
Cash	\$ 153.2
Acquired IPR&D ⁽¹⁾	184.0
Goodwill ⁽²⁾	185.6
Other assets and liabilities, net	24.5
Acquisition date fair value of consideration transferred	547.3
Less:	
Cash acquired	(153.2)
Fair value of CVR liability ⁽³⁾	(66.9)
Cash paid, net of cash acquired	\$ 327.2

⁽¹⁾ Acquired IPR&D intangibles primarily relate to GJB2.

⁽²⁾ The goodwill recognized from this acquisition is attributable primarily to future unidentified projects and products and the assembled workforce for Akouos and is not deductible for tax purposes.

⁽³⁾ See Note 7 for a discussion on the estimation of the CVR liability.

The results of operations attributable to Akouos for the year ended December 31, 2023 and 2022 were immaterial.

Pro forma information has not been included as this acquisition did not have a material impact on our consolidated statements of operations for the years ended December 31, 2022 and 2021.

Prevail Acquisition

Overview of Transaction

In January 2021, we acquired all shares of Prevail for a purchase price that included \$22.50 per share in cash (or an aggregate of \$747.4 million, net of cash acquired) plus one non-tradable CVR per share. The CVR entitles Prevail stockholders up to an additional \$4.00 per share in cash (or an aggregate of approximately \$160 million) payable, subject to certain terms and conditions, upon the first regulatory approval of a Prevail product in one of the following countries: U.S., Japan, United Kingdom, Germany, France, Italy, or Spain. To achieve the full value of the CVR, such regulatory approval must occur by December 31, 2024. If such regulatory approval occurs after December 31, 2024, the value of the CVR will be reduced by approximately 8.3 cents per month until December 1, 2028, at which point the CVR will expire without payment.

Under the terms of the agreement, we acquired potentially disease-modifying AAV9-based gene therapies for patients with neurodegenerative diseases. The acquisition established a new modality for drug discovery and development, extending our research efforts through the creation of a gene therapy program that is being anchored by Prevail's portfolio of assets. The lead gene therapies in clinical development that we acquired were PR001 (GBA1 Gene Therapy) for patients with Parkinson's disease with GBA1 mutations and neuronopathic Gaucher disease and PR006 for patients with frontotemporal dementia with GRN mutations. Both PR001 and PR006 were granted Fast Track designation from the U.S. Food and Drug Administration.

Assets Acquired and Liabilities Assumed

The following table summarizes the amounts recognized for assets acquired and liabilities assumed as of the acquisition date:

Estimated Fair Value at January 22, 2021			
Cash	\$	90.5	
Acquired IPR&D ⁽¹⁾		824.0	
Goodwill ⁽²⁾		126.8	
Deferred tax liabilities		(106.0)	
Other assets and liabilities, net		(31.5)	
Acquisition date fair value of consideration transferred		903.8	
Less:			
Cash acquired		(90.5)	
Fair value of CVR liability ⁽³⁾		(65.9)	
Cash paid, net of cash acquired	\$	747.4	

⁽¹⁾ Acquired IPR&D intangibles primarily relate to PR001 (GBA1 Gene Therapy). In 2022, we impaired the intangible asset related to GBA1 Gene Therapy. See Note 5 for additional information.

⁽²⁾ The goodwill recognized from this acquisition is not deductible for tax purposes.

⁽³⁾ See Note 7 for a discussion on the estimation of the CVR liability.

The results of operations attributable to Prevail for the years ended December 31, 2023, 2022, and 2021 were immaterial.

Pro forma information has not been included as this acquisition did not have a material impact on our consolidated statements of operations for the year ended December 31, 2021.

Asset Acquisitions

The following table summarizes our significant asset acquisitions during 2023, 2022, and 2021.

Counterparty	Compound(s), Therapy, or Asset	Acquisition Month	Phase of Development ⁽¹⁾	Acquired IPR&D Expense
Mablink Biosciences SAS	MBK-103, a folate receptor alpha antibody drug conjugate for the treatment of ovarian cancer	December 2023	Pre-clinical	\$ 256.6
Beam Therapeutics Inc.	Opt-in right for programs targeting PCSK9, ANGPTL3 and an undisclosed liver-mediated, cardiovascular target	October 2023	Phase I	216.3
DICE Therapeutics, Inc. (DICE)	DC-806, an oral IL-17 inhibitor for the treatment of chronic diseases in immunology	August 2023	Phase II	1,915.5
Versanis Bio, Inc. (Versanis)	Bimagrumab, a monoclonal antibody for the treatment of people living with obesity and obesity-related complications	August 2023	Phase II	604.1
Emergence Therapeutics AG	ETx-22, a Nectin-4 antibody-drug conjugate for the treatment of urothelial cancer	August 2023	Pre-clinical	406.5
BioMarin Pharmaceutical Inc.	Priority Review Voucher	February 2022	Not applicable	110.0
Foghorn Therapeutics Inc.	Pre-clinical targets that could lead to potential new oncology medicines	December 2021	Pre-clinical	316.6
Rigel Pharmaceuticals, Inc.	R552, a receptor-interacting serine/threonine-protein kinase 1 (RIPK1) inhibitor, for the potential treatment of autoimmune and inflammatory diseases	March 2021	Phase I	125.0
Precision Biosciences, Inc.	Potential in vivo therapies for genetic disorders	January 2021	Pre-clinical	107.8

⁽¹⁾ The phase of development presented is as of the date of the arrangement and represents the phase of development of the most advanced asset acquired, where applicable.

In connection with our acquisition of Petra Pharma Corporation (Petra) in 2020, we were required to make milestone payments to Petra shareholders contingent upon the occurrence of certain future events linked to the success of the mutant-selective PI3Kα inhibitor. In 2022, we entered into agreements with substantially all Petra shareholders to acquire their rights to receive any future milestone payments in exchange for a one-time payment. As a result of these

agreements, we recognized a charge of \$333.8 million as acquired IPR&D in 2022. Any remaining contingent milestones payments linked to the success of the mutant-selective PI3K α inhibitor are not expected to be material.

We recognized no other significant acquired IPR&D charges during the years ended December 31, 2023, 2022, and 2021.

Note 4: Collaborations and Other Arrangements

We often enter into collaborative and other arrangements to develop and commercialize drug candidates or to sell the rights of a product. See Note 2 for a discussion of our recognition of revenue from our collaborations and other arrangements.

Collaborative activities may include research and development, marketing and selling, manufacturing, and distribution for which we may receive from or pay to the collaboration partner expense reimbursements. Operating expenses for costs incurred pursuant to these arrangements are reported in their respective expense line item, net of any payments due to or reimbursements due from our collaboration partners, with such reimbursements being recognized at the time the party becomes obligated to pay. Each arrangement is unique in nature, and our more significant arrangements are discussed below.

Boehringer Ingelheim Diabetes Collaboration

We and Boehringer Ingelheim have a global agreement to jointly develop and commercialize a portfolio of diabetes compounds. Currently included in the collaboration are Boehringer Ingelheim's oral diabetes products: Jardiance, Glyxambi, Synjardy, Trijardy XR, Trajenta, and Jentadueto® as well as our basal insulins, Basaglar and Rezvoglar. Glyxambi, Synjardy, and Trijardy XR are included in the Jardiance product family. Jentadueto is included in the Trajenta product family. Rezvoglar is included in the Basaglar product family.

In connection with the regulatory approvals of Jardiance, Trajenta, and Basaglar in the U.S., Europe, and Japan, milestone payments made for Jardiance and Trajenta were capitalized as intangible assets and are being amortized to cost of sales, and milestone payments received for Basaglar were recorded as contract liabilities and are being amortized to collaboration and other revenue. Net milestones capitalized with respect to Jardiance and Trajenta and net milestones deferred with respect to Basaglar are not material.

For the Jardiance product family, we and Boehringer Ingelheim generally share equally the ongoing development and commercialization costs in the most significant markets, and we record our portion of the development and commercialization costs as research and development expense and marketing, selling, and administrative expense, respectively. We receive a royalty on net sales of Boehringer Ingelheim's products in the most significant markets and recognize the royalty as collaboration and other revenue. Boehringer Ingelheim is entitled to potential performance payments depending on the net sales of the Jardiance product family; therefore, our reported revenue for Jardiance may be reduced by any potential performance payments we make related to this product family. The royalty received by us related to the Jardiance product family may also be increased or decreased depending on whether net sales for this product family exceed or fall below certain thresholds. We pay to Boehringer Ingelheim a royalty on net sales for the Basaglar product family in the U.S. We record our sales of the Basaglar product family to third parties as net product revenue with the royalty payments made to Boehringer Ingelheim recorded as cost of sales. The following table summarizes our revenue recognized:

	2023	2022	2021
Jardiance	\$ 2,744.7	\$ 2,066.0	\$ 1,490.8
Basaglar	728.3	760.4	892.5
Trajenta	386.9	383.7	372.5

Olumiant

We have a worldwide license and collaboration agreement with Incyte Corporation (Incyte), which provides us the development and commercialization rights to baricitinib, which is branded and trademarked as Olumiant, and certain follow-on compounds, for the treatment of inflammatory and autoimmune diseases and COVID-19. Incyte has the right to receive tiered, double digit royalty payments on worldwide net sales with rates ranging up to 20 percent. Incyte has the right to receive an additional royalty ranging up to the low teens on worldwide net sales for the treatment of COVID-19 that exceed a specified aggregate worldwide net sales threshold. The agreement calls for payments by us to Incyte associated with certain development, success-based regulatory, and sales-based milestones.

In connection with the regulatory approvals of Olumiant in the U.S., Europe, and Japan, as well as achievement of a sales-based milestone, milestone payments were capitalized as intangible assets and are being amortized to cost of

sales through the term of the collaboration. Net milestones capitalized are not material. As of December 31, 2023, Incyte is eligible to receive up to \$100.0 million of additional payments from us in potential sales-based milestones.

We record our sales of Olumiant, including sales of baricitinib that were made pursuant to EUA or similar regulatory authorizations, to third parties as net product revenue with the royalty payments made to Incyte recorded as cost of sales. The following table summarizes our net product revenue recognized:

	2023	2022	2021
Olumiant	\$ 922.6	\$ 830.5	\$ 1,115.1

Tyvyt

We have a collaboration agreement with Innovent Biologics, Inc. (Innovent) to jointly develop and commercialize sintilimab injection in China, where it is branded and trademarked as Tyvyt. We record our sales of Tyvyt to third parties as net product revenue, with payments made to Innovent for its portion of the gross margin reported as cost of sales. We report as collaboration and other revenue our portion of the gross margin for Tyvyt sales made by Innovent to third parties. The following table summarizes our revenue recognized:

	2023	2022	2021
Tyvyt	\$ 393.4	\$ 293.3	\$ 418.1

Ebglyss®

We have a license agreement with F. Hoffmann-La Roche Ltd and Genentech, Inc. (collectively, Roche), which provides us the worldwide development and commercialization rights to lebrikizumab, which is branded and trademarked as Ebglyss. Roche receives tiered royalty payments on worldwide net sales ranging in percentages from high single digits to high teens, which we recognize as cost of sales. As of December 31, 2023, Roche is eligible to receive additional payments from us, including up to \$115.0 million contingent upon the achievement of additional success-based regulatory milestones and up to \$1.03 billion in potential sales-based milestones. During the years ended December 31, 2023 and 2022, milestone payments to Roche were not material. There were no milestone payments to Roche during the year ended December 31, 2021.

We have a license agreement with Almirall, S.A. (Almirall), under which Almirall licensed the rights to develop and commercialize lebrikizumab for the treatment or prevention of dermatology indications, including, but not limited to, atopic dermatitis in Europe. We receive tiered royalty payments on net sales in Europe ranging in percentages from low double digits to low twenties, which we recognize as collaboration and other revenue. During the years ended December 31, 2023, 2022, and 2021, collaboration and other revenue recognized under this license agreement was not material. As of December 31, 2023, we are eligible to receive additional payments up to \$1.25 billion in a series of sales-based milestones.

Orforglipron

We have a license agreement with Chugai Pharmaceutical Co., Ltd (Chugai), which provides us with the worldwide development and commercialization rights to orforglipron. Chugai has the right to receive tiered royalty payments on future worldwide net sales from mid single digits to low teens if the product is successfully commercialized. As of December 31, 2023, Chugai is eligible to receive up to \$140.0 million contingent upon the achievement of success-based regulatory milestones and up to \$250.0 million in a series of sales-based milestones, contingent upon the commercial success of orforglipron. During the years ended December 31, 2023, 2022, and 2021, milestone payments to Chugai were not material.

COVID-19 Antibodies

We have a worldwide license and collaboration agreement with AbCellera Biologics Inc. (AbCellera) to co-develop therapeutic antibodies for the potential prevention and treatment of COVID-19, including bamlanivimab and bebtelovimab, for which we hold development and commercialization rights. AbCellera received royalty payments, recorded as cost of sales, in the mid-teens to mid-twenties on worldwide net sales of bamlanivimab and bebtelovimab.

Pursuant to EUAs or similar regulatory authorizations, we recognized net product revenue associated with our sales of our COVID-19 antibodies of \$2.02 billion and \$2.24 billion during the years ended December 31, 2022 and 2021, respectively. We had no sales of our COVID-19 antibodies during the year ended December 31, 2023.

Divestitures

Olanzapine Portfolio (including Zyprexa)

In July 2023, we sold the rights for the olanzapine portfolio, including Zyprexa, to Cheplapharm Arzneimittel GmbH (Cheplapharm), a European company. Under the terms of the agreement, we received \$1.05 billion in cash and will receive an additional \$305.0 million in cash upon the one year anniversary of closing. We included both in the transaction price as of December 31, 2023. We are eligible to receive milestone payments of up to \$50.0 million, of which \$25.0 million has not been included in the transaction price as of December 31, 2023.

We entered into a supply agreement with Cheplapharm that obligates Cheplapharm to purchase Zyprexa product we are manufacturing at an amount which represents a standalone selling price. As the product we are manufacturing under this supply agreement has no alternative use to us and we have right to payment, we recognize net product revenue over time as we manufacture the product.

During the year ended December 31, 2023, we recognized \$1.45 billion in revenue primarily related to the net gain on the sale of rights for the olanzapine portfolio.

Baqsimi

In June 2023, we sold the rights for Baqsimi to Amphastar Pharmaceuticals, Inc. (Amphastar). Under the terms of the agreement, we received \$500.0 million in cash and will receive an additional \$125.0 million in cash upon the one year anniversary of closing. We included both in the transaction price as of December 31, 2023. We are eligible to receive payments of up to \$450.0 million in a series of sales-based milestones, that have not been included in the transaction price as of December 31, 2023.

We entered into a supply agreement with Amphastar that obligates Amphastar to purchase Baqsimi product we are manufacturing at an amount which represents a standalone selling price. As the product we are manufacturing under this supply agreement has no alternative use to us and we have right to payment, we recognize net product revenue over time as we manufacture the product.

During the year ended December 31, 2023, we recognized \$579.0 million in revenue primarily related to the net gain on the sale of rights for Baqsimi.

Note 5: Asset Impairment, Restructuring, and Other Special Charges

The components of the charges included in asset impairment, restructuring, and other special charges in our consolidated statements of operations are described below:

	2023	2022	2021
Asset impairment and other special charges	\$ 22.2	\$ 221.6	\$ 303.1
Severance	45.5	23.0	13.0
Total asset impairment, restructuring, and other special charges	\$ 67.7	\$ 244.6	\$ 316.1

Asset impairment, restructuring, and other special charges recognized during the year ended December 31, 2022 were primarily related to an intangible asset impairment for GBA1 Gene Therapy, acquired in the Prevail acquisition, as a result of changes in key assumptions used in the valuation due to delays in estimated launch timing.

During the year ended December 31, 2021, we recognized \$128.0 million of intangible asset impairment as a result of the decision by Bayer AG to discontinue the development of a Phase I molecule related to a contract-based intangible asset from our acquisition of Loxo Oncology, Inc. Additionally, we recognized \$108.1 million of intangible asset impairment from the sale of the rights to Qbrexza®, as well as acquisition and integration costs associated with the acquisition of Prevail.

Note 6: Inventories

We use the last-in, first-out (LIFO) method for the majority of our inventories located in the continental U.S. Other inventories are valued by the first-in, first-out (FIFO) method. FIFO cost approximates current replacement cost. Inventories measured using LIFO must be valued at the lower of cost or market. Inventories measured using FIFO must be valued at the lower of cost or net realizable value.

Inventories at December 31 consisted of the following:

	2023	2022
Finished products	\$ 791.7	\$ 901.2
Work in process	3,248.6	2,597.7
Raw materials and supplies	1,630.1	801.9
Total (approximates replacement cost)	5,670.4	4,300.8
Increase to LIFO cost	102.4	8.9
Inventories	\$ 5,772.8	\$ 4,309.7

Inventories valued under the LIFO method comprised \$1.77 billion and \$1.23 billion of total inventories at December 31, 2023 and 2022, respectively.

We recognized a net inventory impairment charge related to our COVID-19 antibodies of \$339.7 million during the year ended December 31, 2021 in cost of sales in our consolidated statements of operations primarily due to the combination of changes to demand from U.S. and international governments, including changes to our agreement with the U.S. government, and near-term expiry dates of COVID-19 antibodies.

Note 7: Financial Instruments

Investments in Equity and Debt Securities

Our equity investments are accounted for using three different methods depending on the type of equity investment:

- Investments in companies over which we have significant influence but not a controlling interest are accounted for using the equity method, with our share of earnings or losses reported in other-net, (income) expense.
- For equity investments that do not have readily determinable fair values, we measure these investments at cost, less any impairment, plus or minus changes resulting from observable price changes in orderly transactions for the identical or similar investment of the same issuer. Any change in recorded value is recorded in other-net, (income) expense.
- Our public equity investments are measured and carried at fair value. Any change in fair value is recognized in other-net, (income) expense.

We adjust our equity investments without readily determinable fair values based upon changes in the equity instruments' values resulting from observable price changes in orderly transactions for an identical or similar investment of the same issuer. Downward adjustments resulting from an impairment are recorded based upon impairment considerations, including the financial condition and near-term prospects of the issuer, general market conditions, and industry specific factors. Adjustments recorded for the years ended December 31, 2023, 2022, and 2021 were not material.

The net gains (losses) recognized in our consolidated statements of operations for equity securities were \$ (20.2) million, \$(410.7) million, and \$176.9 million for the years ended December 31, 2023, 2022, and 2021, respectively. The net gains (losses) recognized for the years ended December 31, 2023, 2022, and 2021 on equity securities sold during the respective periods were not material.

As of December 31, 2023, we had approximately \$930 million of unfunded commitments to invest in venture capital funds, which we anticipate will be paid over a period of up to 10 years.

We record our available-for-sale debt securities at fair value, with changes in fair value reported as a component of accumulated other comprehensive income (loss). We periodically assess our investment in available-for-sale securities for impairment losses and credit losses. The amount of credit losses are determined by comparing the difference between the present value of future cash flows expected to be collected on these securities and the amortized cost. Factors considered in assessing credit losses include the position in the capital structure, vintage and amount of collateral, delinquency rates, current credit support, and geographic concentration. Impairment and credit losses related to available-for-sale securities were not material for the years ended December 31, 2023, 2022, and 2021.

The table below summarizes the contractual maturities of our investments in debt securities measured at fair value as of December 31, 2023:

Maturities by Period					
	Total	Less Than 1 Year	1-5 Years	6-10 Years	More Than 10 Years
Fair value of debt securities	\$ 657.2	\$ 84.1	\$ 227.9	\$ 98.4	\$ 246.8

A summary of the amount of unrealized gains and losses in accumulated other comprehensive loss and the fair value of available-for-sale securities in an unrealized gain or loss position follows:

	2023	2022
Unrealized gross gains	\$ 3.4	\$ 0.6
Unrealized gross losses	37.9	49.2
Fair value of securities in an unrealized gain position	159.2	46.8
Fair value of securities in an unrealized loss position	452.0	568.7

As of December 31, 2023, the available-for-sale securities in an unrealized loss position include primarily fixed-rate debt securities of varying maturities, which are sensitive to changes in the yield curve and other market conditions. Approximately 99 percent of the fixed-rate debt securities in a loss position are investment-grade debt securities. As of December 31, 2023, we do not intend to sell, and it is not more likely than not that we will be required to sell, the securities in a loss position before the market values recover or the underlying cash flows have been received, and there is no indication of a material default on interest or principal payments for our debt securities.

Activity related to our available-for-sale securities was as follows:

	2023	2022	2021
Proceeds from sales	\$ 145.6	\$ 132.9	\$ 174.7
Realized gross gains on sales	0.7	0.4	2.8
Realized gross losses on sales	4.0	9.7	1.7

Realized gains and losses on sales of available-for-sale investments are computed based upon specific identification of the initial cost adjusted for any other-than-temporary declines in fair value that were recorded in earnings.

Fair Value of Investments

The following table summarizes certain fair value information at December 31, 2023 and 2022 for investment assets measured at fair value on a recurring basis, as well as the carrying amount and amortized cost of certain other investments:

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⁽¹⁾ For available-for-sale debt securities, amounts disclosed represent the securities' amortized cost.

⁽²⁾ We consider all highly liquid investments with a maturity of three months or less from the date of purchase to be cash equivalents. The cost of these investments approximates fair value.

⁽³⁾ Fair value disclosures are not applicable for equity method investments and investments accounted for under the measurement alternative for equity investments.

We determine our Level 1 and Level 2 fair value measurements based on a market approach using quoted market values, significant other observable inputs for identical or comparable assets or liabilities, or discounted cash flow analyses. Level 3 fair value measurements for other investment securities are determined using unobservable inputs, including the investments' cost adjusted for impairments and price changes from orderly transactions. Fair values are not readily available for certain equity investments measured under the measurement alternative.

Debt

Fair Value of Debt

The following table summarizes certain fair value information at December 31, 2023 and 2022 for our short-term and long-term debt:

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Risk Management and Related Financial Instruments

Financial instruments that potentially subject us to credit risk consist principally of trade receivables and interest-bearing investments. Wholesale distributors of life science products account for a substantial portion of our trade receivables; collateral is generally not required. We seek to mitigate the risk associated with this concentration through our ongoing credit-review procedures and insurance. The majority of our cash is held by a few major financial institutions that have been identified as Global Systemically Important Banks (G-SIBs) by the Financial Stability Board. G-SIBs are subject to rigorous regulatory testing and oversight and must meet certain capital requirements. We monitor our exposures with these institutions and do not expect any of these institutions to fail to meet their obligations. In accordance with documented corporate risk-management policies, we monitor the amount of credit exposure to any one financial institution or corporate issuer based on credit rating of our counterparty. We are exposed to credit-related losses in the event of nonperformance by counterparties to risk-management instruments but do not expect significant counterparties to fail to meet their obligations given their investment grade credit ratings.

We have entered into accounts receivable factoring agreements with financial institutions to sell certain of our non-U.S. accounts receivable. These transactions are accounted for as sales and result in a reduction in accounts receivable

because the agreements transfer effective control over, and risk related to, the receivables to the buyers. Our factoring agreements do not allow for recourse in the event of uncollectibility, and we do not retain any interest in the underlying accounts receivable once sold. We derecognized \$431.9 million and \$422.1 million of accounts receivable as of December 31, 2023 and 2022, respectively, under these factoring arrangements. The costs of factoring such accounts receivable were not material for the years ended December 31, 2023, 2022, and 2021.

Our derivative activities are initiated within the guidelines of documented corporate risk-management policies and are intended to offset losses and gains on the assets, liabilities, and transactions being hedged. Management reviews the correlation and effectiveness of our derivatives on a quarterly basis.

For derivative instruments that are designated and qualify as fair value hedges, the derivative instrument is marked to market, with gains and losses recognized currently in income to offset the respective losses and gains recognized on the underlying exposure. For derivative instruments that are designated and qualify as cash flow hedges, gains and losses are reported as a component of accumulated other comprehensive income (loss) (see Note 17) and reclassified into earnings in the same period the hedged transaction affects earnings. For derivative and non-derivative instruments that are designated and qualify as net investment hedges, the foreign currency translation gains or losses due to spot rate fluctuations are reported as a component of accumulated other comprehensive income (loss) (see Note 17). Derivative contracts that are not designated as hedging instruments are recorded at fair value with the gain or loss recognized in earnings during the period of change.

We may enter into foreign currency forward or option contracts to reduce the effect of fluctuating currency exchange rates (primarily the euro, Chinese yuan, and Japanese yen). Foreign currency derivatives used for hedging are put in place using the same or like currencies and duration as the underlying exposures. Forward and option contracts are principally used to manage exposures arising from subsidiary trade and loan payables and receivables denominated in foreign currencies. These contracts are recorded at fair value with the gain or loss recognized in other-net, (income) expense. Forward contracts generally have maturities not exceeding 12 months. At December 31, 2023, we had outstanding foreign currency forward commitments as follows, all of which have settlement dates within 180 days:

December 31, 2023				
Purchase		Sell		
Currency	Amount (in millions)	Currency	Amount (in millions)	
U.S. dollars	4,779.4	Euro	4,352.2	
Euro	3,940.4	U.S. dollars	4,250.9	
British pounds	237.7	U.S. dollars	299.2	
U.S. dollars	165.3	Chinese yuan	1,172.7	

Foreign currency exchange risk is also managed through the use of foreign currency debt, cross-currency interest rate swaps, and foreign currency forward contracts. Our foreign currency-denominated notes had carrying amounts of \$7.14 billion and \$6.83 billion as of December 31, 2023 and 2022, respectively, of which \$5.67 billion and \$5.45 billion have been designated as, and are effective as, economic hedges of net investments in certain of our foreign operations as of December 31, 2023 and 2022, respectively. At December 31, 2023, we had outstanding cross currency swaps with notional amounts of \$728.6 million swapping U.S. dollars to euro and \$1.00 billion swapping Swiss francs to U.S. dollars which have settlement dates ranging through 2028. Our cross-currency interest rate swaps, for which a majority convert a portion of our U.S. dollar-denominated fixed-rate debt to foreign-denominated fixed rate debt, have also been designated as, and are effective as, economic hedges of net investments. At December 31, 2023, we had outstanding foreign currency forward contracts to sell 3.20 billion euro and to sell 1.80 billion Chinese yuan, with settlement dates ranging through 2024, which have been designated as, and are effective as, economic hedges of net investments.

In the normal course of business, our operations are exposed to fluctuations in interest rates which can vary the costs of financing, investing, and operating. We seek to address a portion of these risks through a controlled program of risk management that includes the use of derivative financial instruments. The objective of controlling these risks is to limit the impact of fluctuations in interest rates on earnings. Our primary interest-rate risk exposure results from changes in short-term U.S. dollar interest rates. In an effort to manage interest-rate exposures, we strive to achieve an acceptable balance between fixed- and floating-rate debt and investment positions and may enter into interest rate swaps or collars to help maintain that balance.

Interest rate swaps or collars that convert our fixed-rate debt to a floating rate are designated as fair value hedges of the underlying instruments. Interest rate swaps or collars that convert floating-rate debt to a fixed rate are designated as cash flow hedges. Interest expense on the debt is adjusted to include the payments made or received under the swap agreements. Cash proceeds from or payments to counterparties resulting from the termination of interest rate swaps are classified as operating activities in our consolidated statements of cash flows. At December 31, 2023, all of our total long-term debt is at a fixed rate. We have converted approximately 12 percent of our long-term fixed-rate notes to floating rates through the use of interest rate swaps.

We also may enter into forward-starting interest rate swaps and treasury locks, which we designate as cash flow hedges, as part of any anticipated future debt issuances in order to reduce the risk of cash flow volatility from future changes in interest rates. The change in fair value of these instruments is recorded as part of other comprehensive income (loss) (see Note 17) and, upon completion of a debt issuance and termination of the instrument, is amortized to interest expense over the life of the underlying debt. As of December 31, 2023, the total notional amounts of forward-starting interest rate and treasury lock contracts in designated cash flow hedging instruments were \$1.10 billion, which have settlement dates ranging through 2025.

The Effect of Risk Management Instruments on the Consolidated Statements of Operations

The following effects of risk-management instruments were recognized in other-net, (income) expense:

	2023	2022	2021
Fair value hedges:			
Effect from hedged fixed-rate debt	\$ 31.5	\$ (209.8)	\$ (78.5)
Effect from interest rate contracts	(31.5)	209.8	78.5
Cash flow hedges:			
Effective portion of losses on interest rate contracts reclassified from accumulated other comprehensive loss	13.5	16.5	16.6
Cross-currency interest rate swaps	(108.6)	8.6	41.8
Net losses on foreign currency exchange contracts not designated as hedging instruments	26.4	191.3	204.6
Total	\$ (68.7)	\$ 216.4	\$ 263.0

During the years ended December 31, 2023, 2022, and 2021, the amortization of losses related to the portion of our risk management hedging instruments, fair value hedges, and cash flow hedges that was excluded from the assessment of effectiveness was not material.

The Effect of Risk-Management Instruments on Other Comprehensive Income (Loss)

The effective portion of risk-management instruments that was recognized in other comprehensive income (loss) is as follows:

	2023	2022	2021
Net investment hedges:			
Foreign currency-denominated notes	\$ (219.9)	\$ 324.9	\$ 435.0
Cross-currency interest rate swaps	(27.4)	52.0	213.7
Foreign currency forward contracts	(107.1)	(15.4)	—
Cash flow hedges:			
Forward-starting interest rate swaps	85.6	391.5	97.6
Cross-currency interest rate swaps	15.2	29.8	42.3

During the next 12 months, we expect to reclassify \$13.0 million of pretax net losses on cash flow hedges from accumulated other comprehensive loss to other-net, (income) expense. During the years ended December 31, 2023, 2022, and 2021, the amounts excluded from the assessment of hedge effectiveness recognized in other comprehensive income (loss) were not material.

Fair Value of Risk-Management Instruments

The following table summarizes certain fair value information at December 31, 2023 and 2022 for risk-management assets and liabilities measured at fair value on a recurring basis:

[illegible]

[illegible]

Risk-management instruments above are disclosed on a gross basis. There are various rights of setoff associated with certain of the risk-management instruments above that are subject to enforceable master netting arrangements or similar agreements. Although various rights of setoff and master netting arrangements or similar agreements may exist with the individual counterparties to the risk-management instruments above, individually, these financial rights are not material.

Contingent consideration liabilities relate to our liabilities arising in connection with the CVRs issued as a result of acquisitions of businesses. The fair values of the CVR liabilities were estimated using a discounted cash flow analysis and Level 3 inputs, including projections representative of a market participant's view of the expected cash payments associated with the agreed upon regulatory milestones based on probabilities of technical success, timing of the potential milestone events for the compounds, and estimated discount rates.

Note 8: Goodwill and Other Intangibles

Goodwill

Goodwill results from excess consideration in a business combination over the fair value of identifiable net assets acquired. Goodwill is not amortized but is reviewed for impairment at least annually, or more frequently if impairment indicators are present, by first assessing qualitative factors to determine whether it is more likely than not that the fair value is less than its carrying amount. If we conclude it is more likely than not that the fair value is less than the carrying amount, a quantitative test that compares the fair value to its carrying value is performed to determine the amount of any impairment. The change in goodwill during 2023 was primarily related to our acquisition of POINT. See Note 3 for additional information.

No impairments occurred with respect to the carrying value of goodwill for the years ended December 31, 2023, 2022, and 2021.

Other Intangibles

The components of intangible assets other than goodwill at December 31 were as follows:

	2023				2022			
	Carrying Amount, Gross	Accumulated Amortization	Carrying Amount, Net		Carrying Amount, Gross	Accumulated Amortization	Carrying Amount, Net	
Finite-lived intangible assets:								
Marketed products	\$ 8,216.8	\$ (2,277.0)	\$ 5,939.8		\$ 7,957.5	\$ (2,622.7)		
Indefinite-lived intangible assets:								
Acquired IPR&D	966.8	—	966.8		1,871.8	—		
Other intangibles	\$ 9,183.6	\$ (2,277.0)	\$ 6,906.6		\$ 9,829.3	\$ (2,622.7)		

Marketed products consist primarily of the amortized cost of the rights to assets acquired in business combinations and approved for marketing in a significant global jurisdiction (U.S., Europe, and Japan) and capitalized milestone payments. For transactions other than a business combination, we capitalize milestone payments incurred at or after the product has obtained regulatory approval for marketing.

Acquired IPR&D consists of the fair values of acquired IPR&D projects acquired in business combination, adjusted for subsequent impairments, if any. The costs of acquired IPR&D projects acquired directly in a transaction other than a business combination are capitalized as other intangible assets if the projects have an alternative future use; otherwise, they are expensed immediately. See Note 3 for significant acquired IPR&D projects that had no alternative future use.

Several methods may be used to determine the estimated fair value of other intangibles acquired in a business combination. We utilize the "income method," which is a Level 3 fair value measurement and applies a probability weighting that considers the risk of development and commercialization to the estimated future net cash flows that are derived from projected revenues and estimated costs. These projections are based on factors such as relevant market size, patent protection, historical pricing of similar products, analyst expectations, and expected industry trends. The estimated future net cash flows are then discounted to the present value using an appropriate discount rate. This analysis is performed for each asset independently. The acquired IPR&D assets are treated as indefinite-lived intangible assets until completion or abandonment of the projects, at which time the assets are tested for impairment and amortized over the remaining useful life or written off, as appropriate.

The increase in marketed products and the decrease in acquired IPR&D in 2023 primarily relates to the reclassification of our \$1.03 billion intangible asset for lebrikizumab (Ebglyss) from indefinite-lived to finite-lived as it was approved in Europe in the fourth quarter of 2023. This decrease in acquired IPR&D in 2023 was partially offset by acquired IPR&D assets recognized from the acquisition of POINT. See Note 3 for additional information.

Indefinite-lived intangible assets are reviewed for impairment at least annually, or more frequently if impairment indicators are present, by first assessing qualitative factors to determine whether it is more likely than not that the fair value of the asset is less than its carrying amount. If we conclude it is more likely than not that the fair value is less than the carrying amount, a quantitative test that compares the fair value of the intangible asset to its carrying value is performed to determine the amount of any impairment. Finite-lived intangible assets are reviewed for impairment when an indicator of impairment is present. When required, a comparison of fair value to the carrying amount of assets is performed to determine the amount of any impairment. When determining the fair value of indefinite-lived acquired IPR&D as well as the fair value of finite-lived intangible assets for impairment testing purposes, we utilize the "income method" discussed above.

Intangible assets with finite lives are capitalized and are amortized primarily to cost of sales over their estimated useful lives, ranging from one to 20 years. As of December 31, 2023, the remaining weighted-average amortization period for finite-lived intangible assets was approximately 12 years.

Amortization expense related to finite-lived intangible assets was as follows:

	2023	2022	2021
Amortization expense	\$ 505.6	\$ 579.7	\$ 628.8

The estimated amortization expense for each of the next five years associated with our finite-lived intangible assets as of December 31, 2023 is as follows:

	2024	2025	2026	2027	2028
Estimated amortization expense	\$ 542.5	\$ 530.3	\$ 519.7	\$ 517.7	\$ 511.6

Note 9: Property and Equipment

Property and equipment is stated on the basis of cost. Provisions for depreciation of buildings and equipment are computed generally by the straight-line method at rates based on their estimated useful lives (12 to 50 years for buildings and three to 25 years for equipment). We review the carrying value of long-lived assets for potential impairment on a periodic basis and whenever events or changes in circumstances indicate the carrying value of an asset may not be recoverable. Impairment is determined by comparing projected undiscounted cash flows to be generated by the asset to its carrying value. If an impairment is identified, a loss is recorded equal to the excess of the asset's net book value over its fair value, and the cost basis is adjusted.

At December 31, property and equipment consisted of the following:

	2023	2022
Land	\$ 319.8	\$ 256.6
Buildings	8,280.0	7,915.9
Equipment	10,329.0	9,406.3
Construction in progress	5,084.1	2,798.6
	24,012.9	20,377.4
Less accumulated depreciation	(11,099.3)	(10,233.4)
Property and equipment, net	\$ 12,913.6	\$ 10,144.0

Depreciation expense related to property and equipment was as follows:

The following table summarizes long-lived assets by geographical area:

[illegible]

⁽¹⁾ Long-lived assets consist of property and equipment, net, operating lease assets, and unamortized computer software costs.

Note 10: Leases

We determine if an arrangement is a lease at inception. We have leases with terms up to 16 years primarily for corporate offices, research and development facilities, vehicles, and equipment, including some of which have options to extend and/or early-terminate the leases. We determine the lease term by assuming the exercise of any renewal and/or early-termination options that are reasonably assured.

Operating lease right-of-use assets are presented as other noncurrent assets in our consolidated balance sheets, and the current and long-term portions of operating lease liabilities are included in other current liabilities and other noncurrent liabilities, respectively, in our consolidated balance sheets. Short-term leases, which are deemed at inception to have a lease term of 12 months or less, are not recorded on the consolidated balance sheets.

Operating lease assets represent our right to use an underlying asset for the lease term, and operating lease liabilities represent our obligation to make lease payments arising from the lease. Operating lease assets and liabilities are recognized at commencement date based on the present value of lease payments over the lease term. As most of our leases do not provide an implicit rate, we use our incremental borrowing rate based on the information available at commencement date in determining the present value of lease payments.

Lease expense for operating lease assets, which is recognized on a straight-line basis over the lease term, was \$171.2 million, \$148.8 million, and \$159.4 million during the years ended December 31, 2023, 2022, and 2021, respectively. Variable lease payments, which represent non-lease components such as maintenance, insurance and taxes, and which vary due to changes in facts or circumstances occurring after the commencement date other than the passage of time, are expensed in the period in which the payment obligation is incurred and were not material during the years ended December 31, 2023, 2022, and 2021. Short-term lease expense was not material during the years ended December 31, 2023, 2022, and 2021.

Supplemental balance sheet information related to operating leases as of December 31, 2023 and 2022 was as follows:

	2023	2022
Weighted-average remaining lease term	9 years	7 years
Weighted-average discount rate	4.4 %	3.6 %

Supplemental cash flow information related to operating leases during the years ended December 31, 2023, 2022, and 2021 was as follows:

The annual minimum lease payments of our operating lease liabilities as of December 31, 2023 were as follows:

2024	\$	197.0		
2025		180.2		
2026		153.9		
2027		138.2		
2028		108.1		
After 2028		614.7		
Total lease payments		1,392.1		
Less imputed interest		284.8		
Total	\$	1,107.4		

Finance leases are included in property and equipment, short-term borrowings and current maturities of long-term debt, and long-term debt in our consolidated balance sheets. Finance leases are not material to our consolidated financial statements.

Note 11: Borrowings

Debt at December 31 consisted of the following:

[illegible]

The weighted-average effective borrowing rates on short-term commercial paper borrowings were 5.39 percent and 4.20 percent at December 31, 2023 and 2022, respectively.

The following table summarizes long-term notes at December 31:

	2023		2022	
0.15% Swiss franc denominated notes due 2024	\$	714.6	\$	649.5
7.125% notes due 2025		217.5		217.5
2.75% notes due 2025		560.6		560.6
5.0% notes due 2026		750.0		—
1.625% euro denominated notes due 2026		830.7		799.3
5.5% notes due 2027		364.3		364.3
3.1% notes due 2027		401.5		401.5
0.45% Swiss franc denominated notes due 2028		476.4		433.0
3.375% notes due 2029		930.6		930.6
0.42% Japanese yen denominated notes due 2029		162.5		172.1
2.125% euro denominated notes due 2030		830.7		799.3
0.625% euro denominated notes due 2031		664.6		639.4
4.7% notes due 2033		1,000.0		—
0.50% euro denominated notes due 2033		664.6		639.4
0.56% Japanese yen denominated notes due 2034		65.8		69.7
6.77% notes due 2036		158.6		158.6
5.55% notes due 2037		444.7		444.7
5.95% notes due 2037		266.8		266.8
3.875% notes due 2039		240.3		240.3
1.625% British pound denominated notes due 2043		318.5		301.2
4.65% notes due 2044		38.3		38.3
3.7% notes due 2045		386.8		386.8
3.95% notes due 2047		347.0		347.0
3.95% notes due 2049		958.2		958.2
1.70% euro denominated notes due 2049		1,107.6		1,065.7
0.97% Japanese yen denominated notes due 2049		54.2		57.4
2.25% notes due 2050		1,250.0		1,250.0
1.125% euro denominated notes due 2051		553.8		532.9
4.875% notes due 2053		1,250.0		—
4.15% notes due 2059		591.3		591.3
2.50% notes due 2060		850.0		850.0
1.375% euro denominated notes due 2061		775.3		746.0
4.95% notes due 2063		1,000.0		—
Unamortized note discounts		(121.2)		(96.1)
Total long-term notes	\$	19,104.6	\$	14,815.3

The weighted-average effective borrowing rate for each issuance of the long term-notes approximates the stated interest rate.

At December 31, 2023, we had a total of \$7.42 billion of unused committed bank credit facilities, which consisted primarily of a \$3.00 billion credit facility that expires in December 2027 and a \$4.00 billion 364-day facility that expires in September 2024, both of which are available to support our commercial paper program. We have not drawn against

the \$3.00 billion and \$4.00 billion facilities as of December 31, 2023. Of the remaining committed bank credit facilities, the outstanding balances as of December 31, 2023 and 2022 were not material. Compensating balances and commitment fees are not material, and there are no conditions that are probable of occurring under which the lines may be withdrawn.

In February 2024, we issued \$1.00 billion of 4.500 percent fixed-rate notes due in 2027, \$1.00 billion of 4.500 percent fixed-rate notes due in 2029, \$1.50 billion of 4.700 percent fixed-rate notes due in 2034, \$1.50 billion of 5.000 percent fixed-rate notes due in 2054, and \$1.50 billion of 5.100 percent fixed-rate notes due in 2064, all with interest to be paid semi-annually. We used, or will be using, the net cash proceeds from the offering of \$6.45 billion for general business purposes, including the repayment of outstanding commercial paper, repayment of current maturities of long-term debt, and repayment of the \$750.0 million of 5.000 percent fixed-rate notes due in 2026, which are callable at par beginning February 27, 2024.

In February 2023, we issued \$750.0 million of 5.000 percent fixed-rate notes due in 2026, which are callable at par after one year, \$1.00 billion of 4.700 percent fixed-rate notes due in 2033, \$1.25 billion of 4.875 percent fixed-rate notes due in 2053, and \$1.00 billion of 4.950 percent fixed-rate notes due in 2063, all with interest to be paid semi-annually. We used the net cash proceeds from the offering of \$3.96 billion for general business purposes, including the repayment of outstanding commercial paper.

In September 2021, we issued euro-denominated notes totaling €1.80 billion and British pound-denominated notes totaling £250.0 million. We paid \$1.91 billion of the net cash proceeds from the offering to purchase and redeem certain higher interest rate U.S. dollar-denominated notes with an aggregate principal amount of \$1.50 billion, resulting in a debt extinguishment loss of \$405.2 million. This loss was included in other-net, (income) expense in our consolidated statement of operations for the year ended December 31, 2021.

The aggregate amounts of maturities on long-term debt for the next five years are as follows:

	2024	2025	2026	2027	2028
Maturities on long-term debt	\$ 717.5	\$ 778.1	\$ 1,580.7	\$ 765.8	\$ 476.4

We have converted approximately 12 percent of our long-term fixed-rate notes to floating rates through the use of interest rate swaps. The weighted-average effective borrowing rates based on long-term debt obligations and interest rates at December 31, 2023 and 2022, including the effects of interest rate swaps for hedged debt obligations, were 3.37 percent and 2.87 percent, respectively.

The aggregate amount of cash payments for interest on borrowings, net of capitalized interest, are as follows:

	2023	2022	2021
Cash payments for interest on borrowings	\$ 404.2	\$ 323.7	\$ 338.0

In accordance with the requirements of derivatives and hedging guidance, the portion of our fixed-rate debt obligations that is hedged as a fair value hedge is reflected in the consolidated balance sheets as an amount equal to the sum of the debt's carrying value plus the fair value adjustment representing changes in fair value of the hedged debt attributable to movements in market interest rates subsequent to the inception of the hedge.

Note 12: Stock-Based Compensation

Our stock-based compensation expense consists of performance awards (PAs), shareholder value awards (SVAs), relative value awards (RVAs), and restricted stock units (RSUs). We recognize the fair value of stock-based compensation as expense over the requisite service period of the individual grantees, which generally equals the vesting period. We provide newly issued shares of our common stock and treasury stock to satisfy the issuance of PA, SVA, RVA, and RSU shares.

Stock-based compensation expense and the related tax benefits were as follows:

Performance Award Program

PAs are granted to officers and management and are payable in shares of our common stock. The number of PA shares actually issued, if any, varies depending on the achievement of certain pre-established earnings-per-share targets over a two-year period. PA shares are accounted for at fair value based upon the closing stock price on the date of grant and fully vest at the end of the measurement period. The fair values of PAs granted for the years ended December 31, 2023, 2022, and 2021 were \$335.86, \$234.93, and \$198.57, respectively. The number of shares ultimately issued for the PA program is dependent upon the EPS achieved during the vesting period. Pursuant to this program, approximately 0.5 million, 0.7 million, and 0.7 million shares were issued during the years ended December 31, 2023, 2022, and 2021, respectively. Approximately 0.4 million shares are expected to be issued in 2024. As of December 31, 2023, the total estimated remaining unrecognized compensation cost related to nonvested PAs was \$111.6 million, which will be amortized over the weighted-average remaining requisite service period of 12 months.

Shareholder Value Award Program

SVAs are granted to officers and management and are payable in shares of our common stock. The number of shares actually issued, if any, varies depending on our stock price at the end of the three-year vesting period compared to pre-established target stock prices. We measure the fair value of the SVA unit on the grant date using a Monte Carlo simulation model. The model utilizes multiple input variables that determine the probability of satisfying the market condition stipulated in the award grant and calculates the fair value of the award. Expected volatilities utilized in the model are based on implied volatilities from traded options on our stock, historical volatility of our stock price, and other factors. Similarly, the dividend yield is based on historical experience and our estimate of future dividend yields. The risk-free interest rate is derived from the U.S. Treasury yield curve in effect at the time of grant. The weighted-average fair values of the SVA units granted during the years ended December 31, 2023, 2022, and 2021 were \$349.63, \$203.88, and \$230.19, respectively, determined using the following assumptions:

	2023	2022	2021
Expected dividend yield	1.07 %	1.60 %	2.50 %
Risk-free interest rate	4.08	1.57	0.19
Volatility	29.87	32.99	31.42

Pursuant to this program, approximately 0.3 million, 0.5 million, and 1.0 million shares were issued during the years ended December 31, 2023, 2022, and 2021, respectively. Approximately 0.2 million shares are expected to be issued in 2024. As of December 31, 2023, the total estimated remaining unrecognized compensation cost related to nonvested SVAs was \$51.1 million, which will be amortized over the weighted-average remaining requisite service period of 21 months.

Relative Value Award Program

RVAs are granted to officers and management and are payable in shares of our common stock. The number of shares actually issued, if any, varies depending on the growth of our stock price at the end of the three-year vesting period compared to our peers. We measure the fair value of the RVA unit on the grant date using a Monte Carlo simulation model. The model utilizes multiple input variables that determine the probability of satisfying the market condition stipulated in the award grant and calculates the fair value of the award. Expected volatilities utilized in the model are based on implied volatilities from traded options on our stock, historical volatility of our stock price and our peers' stock price, and other factors. Similarly, the dividend yield is based on historical experience and our estimate of future dividend yields. The risk-free interest rate is derived from the U.S. Treasury yield curve in effect at the time of grant. The weighted-average fair value of the RVA units granted during the years ended December 31, 2023, 2022 and 2021 were \$397.95, \$230.00, and \$286.71, respectively, determined using the following assumptions:

	2023	2022	2021
Expected dividend yield	1.07 %	1.60 %	2.50 %
Risk-free interest rate	4.08	1.57	0.19
Volatility	31.25	32.86	30.95

Pursuant to this program, approximately 0.1 million shares were issued during the year ended December 31, 2023. Approximately 0.1 million shares are expected to be issued in 2024. As of December 31, 2023, the total estimated remaining unrecognized compensation cost related to nonvested RVAs was \$21.1 million, which will be amortized over the weighted-average remaining requisite service period of 22 months.

Restricted Stock Units

RSUs are granted to certain employees and are payable in shares of our common stock. RSU shares are accounted for at fair value based upon the closing stock price on the date of grant. The corresponding expense is amortized over the vesting period, typically three years. The weighted-average fair values of RSU awards granted during the years ended December 31, 2023, 2022, and 2021 were \$339.30, \$239.88, and \$196.30, respectively. The number of shares ultimately issued for the RSU program remains constant with the exception of forfeitures. Pursuant to this program, 1.0 million, 1.0 million, and 0.7 million shares were granted and approximately 0.5 million, 0.8 million, and 0.6 million shares were issued during the years ended December 31, 2023, 2022, and 2021, respectively. Approximately 0.4 million shares are expected to be issued in 2024. As of December 31, 2023, the total estimated remaining unrecognized compensation cost related to nonvested RSUs was \$275.3 million, which will be amortized over the weighted-average remaining requisite service period of 22 months.

Note 13: Shareholders' Equity

In 2023, 2022, and 2021, we repurchased \$750.0 million, \$1.50 billion, and \$1.25 billion, respectively, of shares associated with our share repurchase programs. As of December 31, 2023, we had \$2.50 billion remaining under our \$5.00 billion share repurchase program that our board authorized in May 2021.

We have 5.0 million authorized shares of preferred stock. As of December 31, 2023 and 2022, no preferred stock was issued.

We have an employee benefit trust that held 50.0 million shares of our common stock at both December 31, 2023 and 2022, to provide a source of funds to assist us in meeting our obligations under various employee benefit plans. The cost basis of the shares held in the trust was \$3.01 billion at both December 31, 2023 and 2022, and is shown as a reduction of shareholders' equity. Any dividend transactions between us and the trust are eliminated. Stock held by the trust is not considered outstanding in the computation of EPS. The assets of the trust were not used to fund any of our obligations under these employee benefit plans during the years ended December 31, 2023, 2022, and 2021.

Note 14: Income Taxes

Deferred taxes are recognized for the future tax effects of temporary differences between financial and income tax reporting based on enacted tax laws and rates. Deferred taxes related to global intangible low-taxed income (GILTI) are also recognized for the future tax effects of temporary differences.

We recognize the tax benefit from an uncertain tax position only if it is more likely than not that the tax position, based on its technical merits, will be sustained upon examination by the taxing authority. The tax benefits recognized in the financial statements from such a position are measured based on the largest benefit that has a greater than 50 percent likelihood of being realized upon ultimate resolution.

Following is the composition of income tax expense:

	2023			2022			2021		
Current:									
Federal ⁽¹⁾	\$	3,017.9		\$	2,153.6		\$	938.5	
Foreign		613.0			547.7			466.0	
State		24.3			45.5			(28.4)	
Total current tax expense		3,655.2			2,746.8			1,376.1	
Deferred:									
Federal		(2,369.0)			(1,992.4)			(977.5)	
Foreign		34.2			(78.2)			174.6	
State		(6.2)			(114.6)			0.6	
Total deferred tax benefit		(2,341.0)			(2,185.2)			(802.3)	
Income taxes	\$	1,314.2		\$	561.6		\$	573.8	

⁽¹⁾ The 2023, 2022, and 2021 current tax expense includes \$69.3 million, \$189.5 million, and \$64.7 million of tax benefit, respectively, from utilization of net operating loss and other tax carryforwards.

Significant components of our deferred tax assets and liabilities as of December 31 were as follows:

	2023	2022
Deferred tax assets:		
Capitalized research and development	\$ 2,997.5	\$ 1,615.4
Purchases of intangible assets	1,981.9	2,071.3
Sales rebates and discounts	1,632.5	1,312.9
Correlative tax adjustments	1,031.3	752.5
Tax credit carryforwards	577.0	477.6
Tax loss and other tax carryforwards	527.2	626.0
Compensation and benefits	521.4	427.9
Foreign tax redeterminations	323.7	267.8
Operating lease liabilities	253.3	147.5
Other	463.4	361.0
Total gross deferred tax assets	10,309.2	8,059.9
Valuation allowances	(913.5)	(775.1)
Total deferred tax assets	9,395.7	7,284.8
Deferred tax liabilities:		
Intangibles	(1,338.2)	(1,387.9)
Earnings of foreign subsidiaries	(796.6)	(1,226.0)
Inventories	(619.5)	(639.5)
Property and equipment	(495.2)	(433.5)
Prepaid employee benefits	(460.6)	(546.5)
Operating lease assets	(237.1)	(130.7)
Financial instruments	(75.1)	(215.0)
Total deferred tax liabilities	(4,022.3)	(4,579.1)
Deferred tax assets - net	\$ 5,373.4	\$ 2,705.7

The deferred tax asset and related valuation allowance amounts for U.S. federal, international, and state net operating losses and tax credits shown above have been reduced for differences between financial reporting and tax return filings.

At December 31, 2023, based on filed tax returns we have tax credit carryforwards and carrybacks of \$1.00 billion available to reduce future income taxes; \$148.8 million, if unused, will expire in 2026, and \$60.8 million, if unused, will expire between 2029 and 2043. The remaining portion of the tax credit carryforwards is related to federal tax credits of \$55.3 million, international tax credits of \$109.9 million, and state tax credits of \$629.3 million, all of which are fully reserved.

At December 31, 2023, based on filed tax returns we had net operating losses and other carryforwards for international and U.S. federal income tax purposes of \$1.35 billion: \$284.6 million will expire by 2028; \$35.0 million will expire between 2029 and 2043; and \$1.03 billion of the carryforwards will never expire. Net operating losses and other carryforwards for U.S. federal income tax purposes are partially reserved. Deferred tax assets related to state net operating losses and other carryforwards of \$261.9 million are fully reserved as of December 31, 2023.

At December 31, 2023 and 2022, prepaid expenses included prepaid taxes of \$4.26 billion and \$2.37 billion, respectively.

Domestic and Puerto Rican companies contributed approximately 14 percent, 33 percent, and 28 percent for the years ended December 31, 2023, 2022, and 2021, respectively, to consolidated income before income taxes. We have a subsidiary operating in Puerto Rico under a tax incentive grant effective through the end of 2046. The tax incentive grant was amended in 2022 to apply the alternate tax regime established by Puerto Rico legislation starting in 2023.

Substantially all of the unremitted earnings of our foreign subsidiaries are considered not to be indefinitely reinvested for continued use in our foreign operations. At December 31, 2023 and 2022, we accrued an immaterial amount of foreign withholding taxes and state income taxes that would be owed upon future distributions of unremitted earnings of our foreign subsidiaries that are not indefinitely reinvested. For the amount considered to be indefinitely reinvested, it is not practicable to determine the amount of the related deferred income tax liability due to the complexities in the tax laws and assumptions we would have to make.

Cash payments of U.S. federal, state, and foreign income taxes, net of refunds, were as follows:

	2023	2022	2021
Cash payments of income taxes	\$ 5,558.8	\$ 2,672.9	\$ 1,598.8

In December 2017, the Tax Cuts and Job Act (2017 Tax Act) was signed into law. The 2017 Tax Act included significant changes to the U.S. corporate income tax system, including a one-time repatriation transition tax (also known as the 'Toll Tax') on unremitted foreign earnings. The 2017 Tax Act provided an election to taxpayers subject to the Toll Tax to make payments over an eight-year period beginning in 2018 through 2025. Having made this election, our future cash payments relating to the Toll Tax as of December 31, 2023 are as follows:

	Total	2024	2025
2017 Tax Act Toll Tax	\$ 1,427.0	\$ 634.2	\$ 792.8

As of December 31, 2023, we have additional noncurrent income tax payables of \$3.06 billion unrelated to the Toll Tax; we cannot reasonably estimate the timing of future cash outflows associated with these liabilities.

Following is a reconciliation of the consolidated income tax expense applying the U.S. federal statutory rate to income before income taxes to reported consolidated income tax expense:

	2023	2022	2021
Income tax at the U.S. federal statutory tax rate	\$ 1,376.5	\$ 1,429.3	\$ 1,292.6
Add (deduct):			
Non-deductible acquired IPR&D ⁽¹⁾	677.2	68.3	10.5
General business credits	(258.0)	(155.0)	(100.5)
Foreign-derived intangible income deduction	(236.7)	(287.5)	(86.7)
International operations, including Puerto Rico ⁽²⁾	(187.1)	(299.5)	(447.5)
Stock-based compensation ⁽³⁾	(79.9)	(48.9)	(55.7)
Valuation allowance release	(4.2)	(116.4)	(19.0)
Other	26.4	(28.7)	(19.9)
Income taxes	\$ 1,314.2	\$ 561.6	\$ 573.8

⁽¹⁾ Non-deductible acquired IPR&D was primarily related to the acquisitions of DICE, Versanis, and Emergence in 2023. See Note 3 for additional information related to acquisitions.

⁽²⁾ Includes the impact of GILTI tax, Puerto Rico Excise Tax (for 2022 and 2021), and other U.S. taxation of foreign income.

⁽³⁾ Includes excess tax benefits from stock-based compensation and non-deductible stock-based compensation.

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

	2023	2022	2021
Beginning balance at January 1	\$ 2,987.0	\$ 2,798.3	\$ 2,551.9
Additions based on tax positions related to the current year	364.3	274.2	310.3
Additions for tax positions of prior years	78.2	34.6	98.6
Reductions for tax positions of prior years	(39.0)	(10.9)	(8.1)
Settlements	(4.7)	(44.8)	(38.5)
Lapses of statutes of limitation	(21.5)	(11.8)	(49.7)
Changes related to the impact of foreign currency translation	30.7	(52.6)	(66.2)
Ending balance at December 31	\$ 3,395.0	\$ 2,987.0	\$ 2,798.3

The total amount of unrecognized tax benefits that, if recognized, would affect our effective tax rate was \$1.77 billion and \$1.70 billion at December 31, 2023 and 2022, respectively.

We file U.S. federal, foreign, and various state and local income tax returns. We are no longer subject to U.S. federal income tax examination for years before 2016. In most major foreign and state jurisdictions, we are no longer subject to income tax examination for years before 2012.

The U.S. examination of tax years 2016-2018 began in 2019 and remains ongoing. The Internal Revenue Service commenced its examination of tax years 2019-2021 during the third quarter of 2023. The resolution of both audit periods will likely extend beyond the next 12 months.

Interest and penalties related to unrecognized tax benefits are recognized in income tax expense and were not material for the years ended December 31, 2023, 2022, and 2021. Our accrued interest and penalties related to unrecognized tax benefits were \$414.9 million and \$271.5 million at December 31, 2023 and 2022, respectively.

Note 15: Retirement Benefits

We use a measurement date of December 31 to determine the change in benefit obligation, change in plan assets, funded status, and amounts recognized in the consolidated balance sheets at December 31 for our defined benefit pension and retiree health benefit plans, which were as follows:

	Defined Benefit Pension Plans						Retiree Health Benefit Plans					
	2023		2022			2023		2022				
Change in benefit obligation:												
Benefit obligation at beginning of year	\$	13,222.0		\$	17,565.0		\$	1,258.8		\$	1,663.8	
Service cost		290.4			351.7			31.8			46.6	
Interest cost		648.2			398.1			61.3			37.8	
Actuarial (gain) loss		590.5			(4,158.9)			34.5			(395.9)	
Benefits paid		(610.5)			(608.9)			(80.6)			(86.8)	
Foreign currency exchange rate changes and other adjustments		117.3			(325.0)			4.5			(6.7)	
Benefit obligation at end of year		14,257.9			13,222.0			1,310.3			1,258.8	
Change in plan assets:												
Fair value of plan assets at beginning of year		13,195.8			16,416.0			2,492.5			3,361.4	
Actual return on plan assets		881.9			(2,388.1)			166.8			(796.0)	
Employer contribution		120.6			118.1			1.7			13.9	
Benefits paid		(610.5)			(608.9)			(80.6)			(86.8)	
Foreign currency exchange rate changes and other adjustments		120.9			(341.3)			(0.1)			—	
Fair value of plan assets at end of year		13,708.7			13,195.8			2,580.3			2,492.5	
Funded status		(549.2)			(26.2)			1,270.0			1,233.7	
Unrecognized net actuarial (gain) loss		3,357.9			2,687.2			109.6			54.5	
Unrecognized prior service (benefit) cost		6.4			8.4			(9.5)			(62.2)	
Net amount recognized	\$	2,815.1		\$	2,669.4		\$	1,370.1		\$	1,226.0	
Amounts recognized in the consolidated balance sheet consisted of:												
Other noncurrent assets	\$	810.6		\$	1,208.0		\$	1,427.7		\$	1,383.4	
Other current liabilities		(70.4)			(70.4)			(8.3)			(8.4)	
Accrued retirement benefits		(1,289.4)			(1,163.8)			(149.4)			(141.3)	
Accumulated other comprehensive (income) loss before income taxes		3,364.3			2,695.6			100.1			(7.7)	
Net amount recognized	\$	2,815.1		\$	2,669.4		\$	1,370.1		\$	1,226.0	

The unrecognized net actuarial (gain) loss and unrecognized prior service (benefit) cost have not yet been recognized in net periodic pension costs and were included in accumulated other comprehensive loss at December 31, 2023 and 2022.

The \$1.09 billion increase in benefit obligation in 2023 is primarily driven by decreases in the discount rates. The \$4.75 billion decline in benefit obligation in 2022 is primarily driven by increases in the discount rates.

The following represents our weighted-average assumptions:

	Defined Benefit Pension Plans				Retiree Health Benefit Plans		
	2023	2022	2021		2023	2022	2021
Weighted-average assumptions used to determine net periodic benefit costs:							
Discount rate	5.1 %	2.8 %	2.4 %		5.2 %	3.0 %	2.6 %
Rate of compensation increase	4.3	3.5	3.3				
Expected return on plan assets	8.1	8.1	6.8		7.3	7.3	5.0
Weighted-average assumptions used to determine benefit obligation as of December 31:							
Discount rate	4.8 %	5.1 %	2.8 %		5.0 %	5.2 %	3.0 %
Rate of compensation increase	4.3	4.3	3.5				

We annually evaluate the expected return on plan assets in our defined benefit pension and retiree health benefit plans. In evaluating the expected rate of return, we consider many factors, with a primary analysis of current and projected market conditions; asset returns and asset allocations; and the views of leading financial advisers and economists. We may also review our historical assumptions compared with actual results, as well as the assumptions and trend rates utilized by similar plans, where applicable.

Given the design of our retiree health benefit plans, healthcare-cost trend rates do not have a material impact on our financial condition or results of operations.

Expected benefit payments, which reflect expected future service, are as follows:

	2024	2025	2026	2027	2028	2029-2033
Defined benefit pension plans	\$ 661.2	\$ 671.4	\$ 695.0	\$ 722.5	\$ 746.5	\$ 4,160.7
Retiree health benefit plans	93.8	94.5	94.7	95.2	95.6	475.9

Amounts relating to defined benefit pension plans with projected benefit obligations in excess of plan assets were as follows at December 31:

	2023	2022
Projected benefit obligation	\$ 2,395.3	\$ 2,211.2
Fair value of plan assets	1,035.4	977.1

Amounts relating to defined benefit pension plans and retiree health benefit plans with accumulated benefit obligations in excess of plan assets were as follows at December 31:

Net periodic (benefit) cost included the following components:

	Defined Benefit Pension Plans							Retiree Health Benefit Plans					
	2023		2022		2021			2023		2022		2021	
Components of net periodic (benefit) cost:													
Service cost	\$ 290.4		\$ 351.7		\$ 369.2			\$ 31.8		\$ 46.6		\$ 46.6	
Interest cost	648.2		398.1		337.8			61.3		37.8		37.8	
Expected return on plan assets	(1,055.0)		(947.6)		(949.3)			(182.1)		(152.1)		(152.1)	
Amortization of prior service (benefit) cost	2.4		2.4		4.2			(52.9)		(54.8)		(54.8)	
Recognized actuarial (gain) loss	122.0		342.4		487.7			(5.8)		0.9		0.9	
Net periodic (benefit) cost	\$ 8.0		\$ 147.0		\$ 249.6			\$ (147.7)		\$ (121.6)		\$ (121.6)	

The following represents the amounts recognized in other comprehensive income (loss) for the years ended December 31, 2023, 2022, and 2021:

	Defined Benefit Pension Plans							Retiree Health Benefit Plans					
	2023		2022		2021			2023		2022			
Actuarial gain (loss) arising during period	\$ (763.9)		\$ 823.6		\$ 2,072.4			\$ (49.8)		\$ (552.2)			
Amortization of prior service (benefit) cost included in net income	2.4		2.4		4.2			(52.9)		(54.8)			
Amortization of net actuarial (gain) loss included in net income	122.0		342.4		487.7			(5.8)		0.9			
Foreign currency exchange rate changes and other	(29.2)		55.5		47.2			0.7		(0.9)			
Total other comprehensive income (loss) during period	\$ (668.7)		\$ 1,223.9		\$ 2,611.5			\$ (107.8)		\$ (607.0)			

We have defined contribution savings plans that cover our eligible employees worldwide. The purpose of these plans is generally to provide additional financial security during retirement by providing employees with an incentive to save. Our contributions to the plans are based on employee contributions and the level of our match. Expenses under the plans totaled \$222.6 million, \$170.6 million, and \$167.3 million for the years ended December 31, 2023, 2022, and 2021, respectively.

We provide certain other postemployment benefits primarily related to disability benefits and accrue for the related cost over the service lives of employees. Expenses associated with these benefit plans for the years ended December 31, 2023, 2022, and 2021 were not material.

Benefit Plan Investments

Our benefit plan investment policies are set with specific consideration of return and risk requirements in relationship to the respective liabilities. U.S. and Puerto Rico plans represent approximately 85 percent of our global investments. Given the long-term nature of our liabilities, these plans have the flexibility to manage an above-average degree of risk in the asset portfolios. At the investment-policy level, there are no specifically prohibited investments. However, within individual investment manager mandates, restrictions and limitations are contractually set to align with our investment objectives, ensure risk control, and limit concentrations.

We manage our portfolio to minimize concentration of risk by allocating funds within asset categories. In addition, within a category we use different managers with various management objectives to eliminate any significant concentration of risk.

Our global benefit plans may enter into contractual arrangements (derivatives) to implement the local investment policy or manage particular portfolio risks. Derivatives are principally used to increase or decrease exposure to a particular public equity, fixed income, commodity, or currency market more rapidly or less expensively than could be accomplished through the use of the cash markets. The plans utilize both exchange-traded and over-the-counter instruments. The maximum exposure to either a market or counterparty credit loss is limited to the carrying value of the receivable, and is managed within contractual limits. We expect all of our counterparties to meet their obligations. The gross values of these derivative receivables and payables are not material to the global asset portfolio, and their values are reflected within the tables below.

The defined benefit pension and retiree health benefit plan allocation for the U.S. and Puerto Rico currently comprises approximately 75 percent growth investments and 25 percent fixed-income investments. The growth investment allocation encompasses U.S. and international public equity securities, hedge funds, private equity-like investments, and real estate. These portfolio allocations are intended to reduce overall risk by providing diversification, while seeking moderate to high returns over the long term.

Public equity securities are well diversified and invested in U.S. and international small-to-large companies across various asset managers and styles. The remaining portion of the growth portfolio is invested in private alternative investments.

Fixed-income investments primarily consist of fixed-income securities in U.S. treasuries and agencies, emerging market debt obligations, corporate bonds, bank loans, mortgage-backed securities, commercial mortgage-backed obligations, and any related repurchase agreements.

Hedge funds are privately owned institutional investment funds that generally have moderate liquidity. Hedge funds seek specified levels of absolute return regardless of overall market conditions, and generally have low correlations to public equity and debt markets. Hedge funds often invest substantially in financial market instruments (stocks, bonds, commodities, currencies, derivatives, etc.) using a very broad range of trading activities to manage portfolio risks. Hedge fund strategies focus primarily on security selection and seek to be neutral with respect to market moves. Common groupings of hedge fund strategies include relative value, tactical, and event driven. Relative value strategies include arbitrage, when the same asset can simultaneously be bought and sold at different prices, achieving an immediate profit. Tactical strategies often take long and short positions to reduce or eliminate overall market risks while seeking a particular investment opportunity. Event strategy opportunities can evolve from specific company announcements such as mergers and acquisitions, and typically have little correlation to overall market directional movements. Our hedge fund investments are made through limited partnership interests in fund-of-funds structures and directly into hedge funds. Plan holdings in hedge funds are valued based on net asset values (NAVs) calculated by each fund or general partner, as applicable, and we have the ability to redeem these investments at NAV.

Private equity-like investment funds typically have low liquidity and are made through long-term partnerships or joint ventures that invest in pools of capital invested in primarily non-publicly traded entities. Underlying investments include venture capital (early stage investing), buyout, special situations, private debt, and private real estate investments. Private equity management firms typically acquire and then reorganize private companies to create increased long term value. Private equity-like funds usually have a limited life of approximately 10-15 years, and require a minimum investment commitment from their limited partners. Our private equity-like investments are made both directly into funds and through fund-of-funds structures to ensure broad diversification of management styles and assets across the portfolio. Plan holdings in private equity-like investments are valued using the value reported by the partnership, adjusted for known cash flows and significant events through our reporting date. Values provided by the partnerships are primarily based on analysis of and judgments about the underlying investments. Inputs to these valuations include underlying NAVs, discounted cash flow valuations, comparable market valuations, and may also include adjustments for currency, credit, liquidity and other risks as applicable. The vast majority of these private partnerships provide us with annual audited financial statements including their compliance with fair valuation procedures consistent with applicable accounting standards.

Real estate is composed of public holdings. Real estate investments in registered investment companies that trade on an exchange are classified as Level 1 on the fair value hierarchy. Real estate investments in funds measured at fair value on the basis of NAV provided by the fund manager are classified as such. These NAVs are developed with inputs including discounted cash flow, independent appraisal, and market comparable analyses.

Other assets include cash and cash equivalents and mark-to-market value of derivatives.

The cash value of the trust-owned insurance contract is primarily invested in investment-grade publicly traded equity and fixed-income securities.

Other than hedge funds, private equity-like investments, and a portion of the real estate holdings, which are discussed above, we determine fair values based on a market approach using quoted market values, significant other observable inputs for identical or comparable assets or liabilities, or discounted cash flow analyses.

The fair values of our defined benefit pension plan and retiree health plan assets as of December 31, 2023 by asset category were as follows:

[illegible]

⁽¹⁾ Certain investments that are measured at fair value using the NAV per share (or its equivalent) as a practical expedient have not been classified in the fair value hierarchy.

No material transfers between Level 1, Level 2, or Level 3 occurred during the year ended December 31, 2023. The activity in the Level 3 investments during the year ended December 31, 2023 was not material.

The fair values of our defined benefit pension plan and retiree health plan assets as of December 31, 2022 by asset category were as follows:

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

⁽¹⁾ Certain investments that are measured at fair value using the NAV per share (or its equivalent) as a practical expedient have not been classified in the fair value hierarchy.

No material transfers between Level 1, Level 2, or Level 3 occurred during the year ended December 31, 2022. The activity in the Level 3 investments during the year ended December 31, 2022 was not material.

In 2024, we expect to contribute approximately \$40 million to our defined benefit pension plans to satisfy minimum funding requirements for the year. We do not currently expect to make material discretionary contributions in 2024.

Note 16: Contingencies

We are involved in various lawsuits, claims, government investigations and other legal proceedings that arise in the ordinary course of business. These claims or proceedings can involve various types of parties, including governments, competitors, customers, suppliers, service providers, licensees, employees, or shareholders, among others. These matters may involve patent infringement, antitrust, securities, pricing, access, sales and marketing practices, environmental, commercial, contractual rights, licensing obligations, health and safety matters, consumer fraud, employment matters, product liability, insurance coverage, and regulatory compliance, among others. The resolution of these matters often develops over a long period of time and expectations can change as a result of new findings, rulings, appeals or settlement arrangements. Legal proceedings that are significant or that we believe could become significant or material are described below.

We are defending against the legal proceedings in which we are named as defendants vigorously. It is not possible to determine the final outcome of these matters, and we cannot reasonably estimate the maximum potential exposure or the range of possible loss in excess of amounts accrued for any of these matters; however, we believe that the resolution of all such matters will not have a material adverse effect on our consolidated financial position or liquidity, but could possibly be material to our consolidated results of operations in any one accounting period.

Litigation accruals and environmental liabilities and the related estimated insurance recoverables are reflected on a gross basis as liabilities and assets, respectively, on our consolidated balance sheets. With respect to the product liability claims currently asserted against us, we have accrued for our estimated exposures to the extent they are both probable and reasonably estimable based on the information available to us. We accrue for certain product liability claims incurred but not filed to the extent we can formulate a reasonable estimate of their costs. We estimate these expenses based primarily on historical claims experience and data regarding product usage. Legal defense costs expected to be incurred in connection with significant product liability loss contingencies are accrued when both probable and reasonably estimable.

Because of the nature of pharmaceutical products, it is possible that we could become subject to large numbers of additional product liability and related claims in the future. Due to a very restrictive market for litigation liability insurance, we are self-insured for litigation liability losses for all our currently and previously marketed products.

Patent Litigation

Emgality Patent Litigation

We are a named defendant in litigation filed by Teva Pharmaceuticals International GMBH and Teva Pharmaceuticals USA, Inc. (collectively, Teva) in the U.S. District Court for the District of Massachusetts seeking a ruling that various claims in three different Teva patents would be infringed by our launch and continued sales of Emgality for the prevention of migraine in adults.

Following a trial, in November 2022, a jury returned a verdict in favor of Teva. In September 2023, the court granted our motion to overrule the jury verdict and found all asserted claims of the three patents invalid. Teva has appealed the decision. This matter is ongoing.

In June 2021, we were named as a defendant in a second litigation filed by Teva in the U.S. District Court for the District of Massachusetts seeking a ruling that two of Teva's patents, which are directed toward use of the active ingredient in Emgality to treat migraine, would be infringed by our continued sales of Emgality. We challenged these two patents by filing requests for Inter Partes Review with the Patent Trial and Appeal Board (PTAB) and in October 2022, the PTAB granted our requests. In September 2023, the PTAB issued decisions finding all claims of both patents invalid. Teva has agreed not to appeal the decisions and has dismissed the corresponding district court litigation. This matter is closed.

Environmental Proceedings

Under the Comprehensive Environmental Response, Compensation, and Liability Act, commonly known as "Superfund," we have been designated as one of several potentially responsible parties with respect to the cleanup of fewer than 10 sites. Under Superfund, each responsible party may be jointly and severally liable for the entire amount of the cleanup.

Other Matters

Actos® Litigation

We are named along with Takeda Chemical Industries, Ltd. and Takeda affiliates (collectively, Takeda) in a third party payor class action in the U.S. District Court for the Central District of California. Plaintiffs claim that they and similarly situated class members are entitled to recover money paid for or to reimburse Actos prescriptions because of alleged concealment of bladder cancer risk. Our agreement with Takeda calls for Takeda to defend and indemnify us against our losses and expenses with respect to U.S. litigation arising out of the manufacture, use, or sale of Actos and other related expenses in accordance with the terms of the agreement. In August 2023, the Ninth Circuit granted our and Takeda's petition for permission to appeal the class certification order, and briefing was submitted in January 2024. This matter is ongoing.

Mounjaro and Trulicity Product Liability Litigation

We, along with Novo Nordisk A/S (Novo) and other related Novo entities, are named in numerous lawsuits by plaintiffs alleging injuries following purported use of incretin products. Certain complaints name us and allege injuries that plaintiffs claim are associated with the use of Mounjaro and/or Trulicity. These lawsuits were filed beginning in August 2023 and are pending in various federal courts. In February 2024, the Judicial Panel on Multi-District Litigation established Multi-District Litigation for coordinated and consolidated pretrial proceedings in the Eastern District of Pennsylvania. This matter is ongoing.

340B Litigation and Investigations

We are the plaintiff in a lawsuit filed in January 2021 in the U.S. District Court for the Southern District of Indiana against the U.S. Department of Health and Human Services (HHS), the Secretary of HHS, the Health Resources and Services Administration (HRSA), and the Administrator of HRSA. The lawsuit challenges HHS's December 30, 2020 advisory opinion stating that drug manufacturers are required to deliver discounts under the 340B program to all contract pharmacies and HHS's Administrative Dispute Resolution regulations. We seek a declaratory judgment that the defendants violated the Administrative Procedure Act and the U.S. Constitution, a preliminary injunction enjoining implementation of the administrative dispute resolution process created by defendants and, with it, their application of the advisory opinion, and other related relief. In March 2021, the court entered an order preliminarily enjoining the government's enforcement of the administrative dispute resolution process against us. In May 2021, HRSA sent us an enforcement letter notifying us that it determined that our policy was contrary to the 340B statute. In response, in May 2021, we amended our complaint to bring claims related to HRSA's determination. In June 2021, the defendants withdrew the HHS December 30, 2020 advisory opinion. In July 2021, the court held oral argument on the parties' cross motions for summary judgment and the defendants' motion to dismiss. In October 2021, the court denied the defendants' motion to dismiss, and granted in part and denied in part the parties' cross motions for summary judgment. Both parties filed notices of appeal related to the court's summary judgment order. In October 2022, the U.S. Court of Appeals for the Seventh Circuit held oral argument. This matter is ongoing.

We, along with other pharmaceutical manufacturers, have been named as a defendant in petitions filed in 2021 and 2023 and currently pending before the HHS Administrative Dispute Resolution Panel. Petitioners seek declaratory, injunctive, and/or monetary relief related to the 340B program. The U.S. District Court for the Southern District of Indiana has entered a preliminary injunction enjoining the government's enforcement of this administrative dispute resolution process against us.

In July 2021, we, along with Sanofi-Aventis U.S., LLC (Sanofi), Novo Nordisk Inc. (Novo Nordisk), and AstraZeneca Pharmaceuticals LP (AstraZeneca), were named as a defendant in a purported class action lawsuit filed in the U.S. District Court for the Western District of New York by Mosaic Health, Inc. alleging antitrust and unjust enrichment claims related to the defendants' 340B distribution programs. We, with Sanofi, Novo Nordisk, and AstraZeneca, filed a motion to dismiss the lawsuit, which was granted in September 2022. In October 2022, the plaintiffs filed a motion for leave to amend their complaint. In January 2024, the court denied the motion for leave to amend and dismissed the case.

We received a civil investigative subpoena in February 2021 from the Office of the Attorney General for the State of Vermont relating to the sale of pharmaceutical products to Vermont covered entities under the 340B program. We are cooperating with this subpoena.

Branchburg Manufacturing Facility

In May 2021, we received a subpoena from the U.S. Department of Justice requesting the production of certain documents relating to our manufacturing site in Branchburg, New Jersey. We are cooperating with the subpoena.

Brazil Litigation – Cosmopolis Facility

Labor Attorney Litigation

First initiated in 2008, Eli Lilly do Brasil Limitada (Lilly Brasil) is named in a Public Civil Action brought by the Labor Public Attorney (LPA) alleging harm to employees and former employees caused by alleged exposure to soil and groundwater contaminants at a former manufacturing facility in Cosmopolis, operated by the company between 1977 and 2003. In May 2014, the trial Court ruled against Lilly Brasil, ordering it to undertake several remedial and compensatory actions, including health coverage for a class of individuals and certain of their children. In July 2018, the appeals court generally affirmed the trial Court's ruling, which included a liquidated award of 300 million Brazilian reais, which, when adjusted for inflation, is approximately 1.26 billion Brazilian reais (approximately \$260 million as of December 31, 2023). In August 2019, Lilly Brasil appealed to the superior labor court (TST) and in June 2021, the majority of the elements of Lilly Brasil's appeal were admitted; elements not proceeding are subject to an interlocutory appeal to the TST that was filed in June 2021. Mediation hearings are ongoing.

In July 2019, at the LPA's request, the trial Court ordered a freeze of Lilly Brasil's immovable property in the amount of 500 million Brazilian reais, which was reduced on Lilly Brasil's appeal and, when adjusted for inflation, is approximately 131 million Brazilian reais (approximately \$27 million as of December 31, 2023). The parties appealed to the TST, which appeal is under review. The trial Court is currently assessing the status of Lilly Brasil's compliance with the obligations as to the land and an inspection in the industrial plant occurred in October 2023. These matters are ongoing.

Individual Former Employee Litigation

Lilly Brasil is also named in various pending lawsuits filed in the trial Court by individual former employees making related claims. These individual lawsuits are at various stages in the litigation process.

Puerto Rico Tax Matter

In May 2013, the Municipality of Carolina in Puerto Rico (Municipality) filed a lawsuit against us alleging noncompliance with respect to a contract with the Municipality and seeking a declaratory judgment. In December 2020, the Puerto Rico Appellate Court (AP) reversed the summary judgment previously granted by the Court of First Instance (CFI) in our favor, dismissing the Municipality's complaint in its entirety. The AP remanded the case to the CFI for trial on the merits. The trial began in May 2022; however, the Municipality filed a new motion requesting the CFI to execute an alleged judgment. The request was denied by the CFI in our favor and the Municipality filed for revision at the AP, which we opposed, staying the case. The AP denied the Municipality's motion for revision. This matter is ongoing and trial has been scheduled for August 2024.

Average Manufacturer Price Litigation

In November 2014, we, along with another pharmaceutical manufacturer, were named as co-defendants in *United States et al. ex rel. Streck v. Takeda Pharm. Am., Inc., et al.*, which was filed in November 2014 and unsealed in the U.S. District Court for the Northern District of Illinois. The complaint alleges that the defendants should have treated certain credits from distributors as retroactive price increases and included such increases in calculating average manufacturer prices. Following a trial in August 2022, the jury returned a verdict in favor of the plaintiff. Lilly appealed to the Seventh Circuit and the appeal is pending. This matter is ongoing.

Health Choice Alliance

We are named as a defendant in two lawsuits filed in Texas and New Jersey state courts in October 2019 seeking damages under the Texas Medicaid Fraud Prevention Act and New Jersey Medicaid False Claims Act, respectively, for certain patient support programs related to our products Humalog, Humulin, and Forteo. The Texas state court action has been stayed. The New Jersey state court action was dismissed with prejudice pending an ongoing appeal before the Appellate Division of the New Jersey Superior Court. This matter is ongoing.

Pricing Litigation

We, along with Sanofi, Novo Nordisk, and, in some matters, certain pharmacy benefit managers, have been named in numerous lawsuits, including putative class actions, by states and state attorneys general, counties, municipalities, third-party payers, consumers, and other parties related to insulin pricing and rebates paid by manufacturers to pharmacy benefit managers. These lawsuits assert various theories, including consumer protection and deceptive trade practice, fraud, false advertising, unjust enrichment, civil conspiracy, federal and state RICO statutes, antitrust, and unfair competition claims. These lawsuits have been brought in various state and federal courts since 2017 and are at various stages in the litigation process. Starting in August 2023 after a ruling by the Judicial Panel for Multi-District Litigation, several of these cases were transferred to or filed in the District of New Jersey for coordinated or consolidated pre-trial proceedings. In May 2023, we reached a settlement in the *In re Insulin Pricing Litigation* consumer class action. A motion for preliminary approval of our settlement is pending. In January 2024, the Multi-District Litigation court denied the consumer class plaintiffs' motion for class certification and ordered the parties to submit briefs addressing the impact of that denial on the motion for preliminary approval of the settlement. In February 2024, we entered into a non-monetary settlement with the Minnesota Attorney General's Office that resolved all matters related to Minnesota's insulin pricing lawsuit.

Investigations, Subpoenas, and Inquiries

We have been subject to various investigations and received subpoenas, civil investigative demand requests, information requests, interrogatories, and other inquiries from various governmental entities related to pricing issues, including the pricing and sale of insulins and other products and calculations of AMP and best price. These include subpoenas from the Vermont Attorney General Office, civil investigative demands from the Washington, New Mexico, Colorado, Louisiana, Texas and Ohio Attorney General Offices, the U.S. Department of Justice, and the U.S. Federal Trade Commission, as well as information requests from the Mississippi, Washington D.C., California, Florida, Hawaii, and Nevada Attorney General Offices.

In January 2022, the Michigan Attorney General filed a petition in Michigan state court seeking authorization to investigate Lilly for potential violations of the Michigan Consumer Protection Act (MCPA), and a complaint seeking a declaratory judgment that the Attorney General has authority to investigate Lilly's sale of insulin under the MCPA. The court authorized the proposed investigation and the issuance of civil investigative subpoenas. In April 2022, the parties entered into a stipulation providing that the State of Michigan will not issue any civil investigative subpoena to us under the MCPA until the declaratory judgment action is resolved. In July 2022, the court dismissed the case in its entirety. In June 2023, the Michigan Court of Appeals affirmed the judgment in our favor. In August 2023, the Michigan Attorney General filed an application for leave to appeal to the Michigan Supreme Court, which is being set for argument.

We are cooperating with all of the aforementioned investigations, subpoenas, and inquiries.

Research Corporation Technologies, Inc.

In April 2016, we were named as a defendant in litigation filed by Research Corporation Technologies, Inc. (RCT) in the U.S. District Court for the District of Arizona. RCT is seeking damages for breach of contract, unjust enrichment, and conversion related to processes used to manufacture certain products, including Humalog and Humulin. In October 2021, the court issued a summary judgment decision in favor of RCT on certain issues, including with respect to a disputed royalty. Trial is scheduled for August 2024. Potential damages payable under the litigation, if finally awarded after an appeal, could be material but are not currently reasonably estimable. This matter is ongoing.

Note 17: Other Comprehensive Income (Loss)

The following table summarizes the activity related to each component of other comprehensive income (loss):

The tax effects on the net activity related to each component of other comprehensive income (loss) for the years ended December 31, were as follows:

[illegible]

Except for the tax effects of foreign currency translation gains and losses related to our foreign currency-denominated notes, cross-currency interest rate swaps, and other foreign currency exchange contracts designated as net investment hedges (see Note 7), income taxes were not provided for foreign currency translation. Generally, the assets and liabilities of foreign operations are translated into U.S. dollars using the current exchange rate. For those operations, changes in exchange rates generally do not affect cash flows; therefore, resulting translation adjustments are made in shareholders' equity rather than in the consolidated statements of operations.

Reclassifications out of accumulated other comprehensive loss were as follows:

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

Note 18: Other–Net, (Income) Expense

Other–net, (income) expense consisted of the following:

	2023	2022	2021
Interest expense	\$ 485.9	\$ 331.6	\$ 339.8
Interest income	(173.6)	(62.8)	(25.4)
Net investment (gains) losses on equity securities (Note 7)	20.2	410.7	(176.9)
Debt extinguishment loss (Note 11)	—	—	405.2
Retirement benefit plans	(461.9)	(372.9)	(289.7)
Other (income) expense	32.7	14.3	(51.4)
Other–net, (income) expense	\$ (96.7)	\$ 320.9	\$ 201.6

Management's Reports

Management's Report for Financial Statements—Eli Lilly and Company and Subsidiaries

Management of Eli Lilly and Company and subsidiaries is responsible for the accuracy, integrity, and fair presentation of the financial statements. The statements have been prepared in accordance with generally accepted accounting principles in the United States and include amounts based on judgments and estimates by management. In management's opinion, the consolidated financial statements present fairly our financial position, results of operations, and cash flows.

In addition to the system of internal accounting controls, we maintain a code of conduct (known as "*The Red Book*") that applies to all employees worldwide, requiring proper overall business conduct, avoidance of conflicts of interest, compliance with laws, and confidentiality of proprietary information. All employees must take training annually on *The Red Book* and are required to report suspected violations. A hotline number is available on our lilly.com website and on the internal LillyNow website to enable reporting of suspected violations anonymously. Employees who report suspected violations are protected from discrimination or retaliation by the company. In addition to *The Red Book*, the chief executive officer and all financial management must sign a financial code of ethics, which further reinforces their ethical and fiduciary responsibilities.

The consolidated financial statements have been audited by Ernst & Young LLP, an independent registered public accounting firm (PCAOB ID: 42). Their responsibility is to examine our consolidated financial statements in accordance with generally accepted auditing standards of the Public Company Accounting Oversight Board (United States). Ernst & Young's opinion with respect to the fairness of the presentation of the statements is included in Item 8 of our Annual Report on Form 10-K. Ernst & Young reports directly to the audit committee of the board of directors.

Our audit committee includes four nonemployee members of the board of directors, all of whom are independent from our company. The committee charter, which is available on our website, outlines the members' roles and responsibilities. It is the audit committee's responsibility to appoint an independent registered public accounting firm subject to shareholder ratification, pre-approve both audit and non-audit services performed by the independent registered public accounting firm, and review the reports submitted by the firm. The audit committee meets several times during the year with management, the internal auditors, and the independent public accounting firm to discuss audit activities, internal controls, and financial reporting matters, including reviews of our externally published financial results. The internal auditors and the independent registered public accounting firm have full and free access to the committee.

We are dedicated to ensuring that we maintain the high standards of financial accounting and reporting that we have established. We are committed to providing financial information that is transparent, timely, complete, relevant, and accurate. Our culture demands integrity and an unyielding commitment to strong internal practices and policies. Finally, we have the highest confidence in our financial reporting, our underlying system of internal controls, and our people, who are objective in their responsibilities, operate under a code of conduct and are subject to the highest level of ethical standards.

Management's Report on Internal Control Over Financial Reporting—Eli Lilly and Company and Subsidiaries

Management of Eli Lilly and Company and subsidiaries is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) and 15d-15(f) under the Securities Exchange Act of 1934. We have global financial policies that govern critical areas, including internal controls, financial accounting and reporting, fiduciary accountability, and safeguarding of corporate assets. Our internal accounting control systems are designed to provide reasonable assurance that assets are safeguarded, that transactions are executed in accordance with management's authorization and are properly recorded, and that accounting records are adequate for preparation of financial statements and other financial information. A staff of internal auditors regularly monitors, on a worldwide basis, the adequacy and effectiveness of internal accounting controls. The general auditor reports directly to the audit committee of the board of directors.

We conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in "Internal Control—Integrated Framework" (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.

The effectiveness of internal control over financial reporting as of December 31, 2023 has been audited by Ernst & Young LLP, an independent registered public accounting firm, as stated in their attestation report, which appears herein. Their responsibility is to evaluate whether internal control over financial reporting was designed and operating effectively.

[illegible]

February 21, 2024

Report of Independent Registered Public Accounting Firm

To the Shareholders and Board of Directors of Eli Lilly and Company

Opinion on the Financial Statements

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

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2023, based on criteria established in Internal Control — Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework), and our report dated February 21, 2024, expressed an unqualified opinion thereon.

Basis for Opinion

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

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

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) 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 matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Report of Independent Registered Public Accounting Firm

To the Shareholders and Board of Directors of Eli Lilly and Company

Opinion on Internal Control Over Financial Reporting

We have audited Eli Lilly and Company and subsidiaries' internal control over financial reporting as of December 31, 2023, based on criteria established in Internal Control — Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Eli Lilly and Company and subsidiaries (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2023, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of the Company as of December 31, 2023 and 2022, the related consolidated statements of operations, comprehensive income (loss), shareholders' equity and cash flows for each of the three years in the period ended December 31, 2023, and the related notes and our report dated February 21, 2024, expressed an unqualified opinion thereon.

Basis for Opinion

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

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

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

Definition and Limitations of Internal Control Over Financial Reporting

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

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

/s/ Ernst & Young LLP					

Indianapolis, Indiana
February 21, 2024

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

None.

Item 9A. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Under applicable Securities and Exchange Commission (SEC) regulations, management of a reporting company, with the participation of the principal executive officer and principal financial officer, must periodically evaluate the company's "disclosure controls and procedures," which are defined generally as controls and other procedures designed to ensure that information required to be disclosed by the reporting company in its periodic reports filed with the SEC (such as this Form 10-K) is recorded, processed, summarized, and reported on a timely basis.

Our management, with the participation of David Ricks, president and chief executive officer, and Anat Ashkenazi, executive vice president and chief financial officer, evaluated our disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934) as of December 31, 2023, and concluded that they were effective.

Management's Report on Internal Control over Financial Reporting

Mr. Ricks and Ms. Ashkenazi provided a report on behalf of management on our internal control over financial reporting, in which management concluded that the company's internal control over financial reporting is effective at December 31, 2023 based on the framework in "Internal Control—Integrated Framework" (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Our internal control over financial reporting is 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 in the United States. Due to the inherent limitations, no evaluation over internal control can provide absolute assurance that no material misstatements or fraud exist.

In addition, Ernst & Young LLP, the company's independent registered public accounting firm, issued an attestation report on the company's internal control over financial reporting as of December 31, 2023.

You can find the full text of management's report and Ernst & Young's attestation report in Item 8.

Changes in Internal Control over Financial Reporting

During the fourth quarter of 2023, there were no changes in our internal control over financial reporting that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. We rely extensively on information systems and technology to manage our business, including integrated supply chain operations, and global consolidated financial results. In February 2024, we completed the implementation of a new global enterprise resource planning (ERP) system, which replaced our operating and financial systems. We recently began our post-implementation activities. The ERP system is designed to accurately maintain our financial records, support integrated supply chain and other operational functionality, and provide timely information to our management team related to the operation of the business. During the implementation and post-implementation activities, we have made, and will have to make, changes to certain of our processes and procedures, and we will evaluate quarterly whether the changes materially affect our internal control over financial reporting.

Item 9B. Other Information

On November 16, 2023, Donald Zakrowski, senior vice president, finance, and chief accounting officer, adopted a sales plan (Plan). The Plan was entered into during an open trading window and is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c) of the Exchange Act of 1934 and our policies regarding trading in our securities. The Plan calls for the sale of up to 3,150 shares of company common stock between March 11, 2024 and November 14, 2024 subject to the terms and conditions of the Plan.

Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

Part III

Item 10. Directors, Executive Officers, and Corporate Governance

Directors and Executive Officers

Information relating to our board of directors is found in our Definitive Proxy Statement, to be dated on or about March 22, 2024 (Proxy Statement), under "Governance - How We Build an Effective Board" and is incorporated in this Annual Report on Form 10-K by reference.

Information relating to our executive officers is found at Item 1, "Business - Executive Officers of the Company" and is incorporated by reference herein.

Code of Ethics

Information relating to our code of ethics is found in our Proxy Statement under "Governance - How We Operate an Effective Board - Governance Practices - Board Oversight - Key Areas of Oversight by the Board and Its Committees - Governance - Code of Ethics" and is incorporated in this Annual Report on Form 10-K by reference.

Corporate Governance

Information about the procedures by which shareholders can recommend nominees to our board of directors is found in our Proxy Statement under "Governance - How We Build an Effective Board - Director Nominations - Shareholder Director Candidates" and is incorporated in this Annual Report on Form 10-K by reference.

The board of directors has appointed an audit committee consisting entirely of independent directors in accordance with applicable Securities and Exchange Commission and New York Stock Exchange requirements for audit committees. Information about our audit committee is found in our Proxy Statement under "Governance - How We Operate an Effective Board - Board Structure - Meetings of the Board and Its Committees - Committees of the Board - Audit Committee" and is incorporated in this Annual Report on Form 10-K by reference.

Section 16(a) Reporting Compliance

Information about our compliance with Section 16(a) is found in our Proxy Statement under "Ownership of Company Stock - Delinquent Section 16(a) Reports" and is incorporated in this Annual Report on Form 10-K by reference.

Item 11. Executive Compensation

Information on director compensation, executive compensation, and talent and compensation committee matters can be found in the Proxy Statement under "Governance - How We Operate an Effective Board - Board Alignment - Director Compensation," "- How We Operate an Effective Board - Board Structure - Meetings of the Board and Its Committees - Committees of the Board - Talent and Compensation Committee," "Compensation - Compensation Discussion and Analysis," "- Talent and Compensation Committee Matters," and "- Executive Compensation." Such information is incorporated in this Annual Report on Form 10-K by reference.

Item

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

Security Ownership of Certain Beneficial Owners and Management

Information relating to ownership of the company's common stock by management and by persons known by the company to be the beneficial owners of more than five percent of the outstanding shares of common stock is found in the Proxy Statement under "Ownership of Company Stock" and incorporated in this Annual Report on Form 10-K by reference.

Securities Authorized for Issuance Under Equity Compensation Plans

The following table presents information as of December 31, 2023 regarding the company's compensation plans under which shares of the company's common stock have been authorized for issuance.

Plan category	(a) Number of securities to be issued upon exercise of outstanding options, warrants, and rights ⁽¹⁾	(b) Weighted-average exercise price of outstanding options, warrants, and rights	(c) Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
Equity compensation plans approved by security holders	—	\$ —	49,082,012
Equity compensation plan not approved by security holders	—	—	—
Total	—	—	49,082,012

⁽¹⁾ 3,599,883 shares are underlying outstanding equity awards other than options.

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

Related Person Transactions

Information relating to the policies and procedures for approval of related person transactions by our board of directors can be found in the Proxy Statement under "Governance - How We Operate an Effective Board - Board Alignment - Conflicts of Interest and Transactions with Related Persons." Such information is incorporated in this Annual Report on Form 10-K by reference.

Director Independence

Information relating to director independence can be found in the Proxy Statement under "Governance - How We Build an Effective Board - Director Qualifications - Independence" and is incorporated in this Annual Report on Form 10-K by reference.

Item 14. Principal Accountant Fees and Services

Information related to the fees and services of our principal independent accountants, Ernst & Young LLP, can be found in the Proxy Statement under "Audit Matters - Item 3. Ratification of the Appointment of the Independent Auditor - Services Performed by the Independent Auditor" and "- Independent Auditor Fees." Such information is incorporated in this Annual Report on Form 10-K by reference.

Item 15. Exhibits and Financial Statement Schedules

(a)1. Financial Statements

The following consolidated financial statements of the company and its subsidiaries are found at Item 8:

- Consolidated Statements of Operations—Years Ended December 31, 2023, 2022, and 2021
- Consolidated Statements of Comprehensive Income (Loss)—Years Ended December 31, 2023, 2022, and 2021
- Consolidated Balance Sheets—December 31, 2023 and 2022
- Consolidated Statements of Shareholders' Equity—Years Ended December 31, 2023, 2022, and 2021
- Consolidated Statements of Cash Flows—Years Ended December 31, 2023, 2022, and 2021
- Notes to Consolidated Financial Statements

(a)2. Financial Statement Schedules

The consolidated financial statement schedules of the company and its subsidiaries have been omitted because they are not required, are inapplicable, or are adequately explained in the financial statements.

Financial statements of interests of 50 percent or less, which are accounted for by the equity method, have been omitted because they do not, considered in the aggregate as a single subsidiary, constitute a significant subsidiary.

(a)3. Exhibits

The following documents are filed as part of this Annual Report on Form 10-K:

Exhibit	Description
3.1	Amended Articles of Incorporation, incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed on May 4, 2022
3.2	Bylaws, as amended, incorporated by reference to Exhibit 3.2 to the Company's Current Report on Form 8-K filed on May 4, 2022
4.1	Indenture, dated February 1, 1991, between the Company and Deutsche Bank Trust Company Americas, as successor trustee to Citibank, N.A., as Trustee, incorporated by reference to Exhibit 4.1 to the Company's Registration Statement on Form S-3, Registration No. 333-186979
4.2	Tripartite Agreement, dated September 13, 2007, appointing Deutsche Bank Trust Company Americas as Successor Trustee under the Indenture listed in Exhibit 4.1, incorporated by reference to Exhibit 4.2 to the Company's Annual Report on Form 10-K for the year ended December 31, 2008
4.3	Description of the Company's Common Stock*
4.4	Description of the Company's 1.625% Notes due 2026 and 2.125% Notes due 2030, incorporated by reference to Exhibit 4.4 to the Company's Annual Report on Form 10-K for the year ended December 31, 2019
4.5	Description of the Company's 6.77% Notes due 2036, incorporated by reference to Exhibit 4.5 to the Company's Annual Report on Form 10-K for the year ended December 31, 2019
4.6	Description of the Company's 7 1/8% Notes due 2025, incorporated by reference to Exhibit 4.6 to the Company's Annual Report on Form 10-K for the year ended December 31, 2019
4.7	Description of the Company's 0.625% Notes due 2031 and 1.700% Notes due 2049, incorporated by reference to Exhibit 4.7 to the Company's Annual Report on Form 10-K for the year ended December 31, 2019

4.8		Description of the Company's 0.500% Notes due 2033, 1.125% Notes due 2051, and 1.375% Notes due 2061, incorporated by reference to Exhibit 4.8 to the Company's Annual Report on Form 10-K for the year ended December 31, 2021
4.9		Description of the Company's 1.625% Notes due 2043, incorporated by reference to Exhibit 4.9 to the Company's Annual Report on Form 10-K for the year ended December 31, 2021
10.1		Amended and Restated 2002 Lilly Stock Plan⁽¹⁾, incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018
10.2		Form of Performance Award under the 2002 Lilly Stock Plan⁽¹⁾, incorporated by reference to Exhibit 10.2 to the Company's Annual Report on Form 10-K for the year ended December 31, 2022
10.3		Form of Shareholder Value Award under the 2002 Lilly Stock Plan⁽¹⁾*
10.4		Form of Relative Value Award under the 2002 Lilly Stock Plan⁽¹⁾*
10.5		Form of Restricted Stock Unit Award under the 2002 Lilly Stock Plan⁽¹⁾*
10.6		Form of Non-Compete Payment Agreement⁽¹⁾, incorporated by reference to Exhibit 10.5 to the Company's Annual Report on Form 10-K for the year ended December 31, 2022
10.7		The Lilly Deferred Compensation Plan, as amended⁽¹⁾, incorporated by reference to Exhibit 10.5 to the Company's Annual Report on Form 10-K for the year ended December 31, 2013
10.8		The Lilly Directors' Deferral Plan, as amended⁽¹⁾, incorporated by reference to Exhibit 10 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017
10.9		The Eli Lilly and Company Bonus Plan, as amended⁽¹⁾, incorporated by reference to Exhibit 10.14 to the Company's Annual Report on Form 10-K for the year ended December 31, 2020
10.10		2007 Change in Control Severance Pay Plan for Select Employees, as amended⁽¹⁾*
21		List of Subsidiaries*
23		Consent of Independent Registered Public Accounting Firm*
31.1		Rule 13a-14(a) Certification of David Ricks, Chair, President, and Chief Executive Officer*
31.2		Rule 13a-14(a) Certification of Anat Ashkenazi, Executive Vice President and Chief Financial Officer*
32		Section 1350 Certification*
97		Executive Compensation Recovery Policy*
101		Interactive Data File*
104		Cover Page Interactive Data File (formatted in Inline XBRL and contained in Exhibit 101)*

⁽¹⁾ Indicates management contract or compensatory plan.

* Filed herewith.

Long-term debt instruments under which the total amount of securities authorized does not exceed 10 percent of our consolidated assets are not filed as exhibits to this Annual Report. We will furnish a copy of these agreements to the Securities and Exchange Commission upon request.

Item 16. Form 10-K Summary

Not applicable.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below on February 21, 2024 by the following persons on behalf of the Registrant and in the capacities indicated.

Signature	Title
/s/ David Ricks	Chair, President, and Chief Executive Officer
DAVID RICKS	(principal executive officer)
/s/ Anat Ashkenazi	Executive Vice President and Chief Financial
ANAT ASHKENAZI	Officer (principal financial officer)
/s/ Donald Zakrowski	Senior Vice President, Finance, and Chief
DONALD ZAKROWSKI	Accounting Officer (principal accounting officer)
/s/ Ralph Alvarez	Director
RALPH ALVAREZ	
/s/ Katherine Baicker, Ph.D.	Director
KATHERINE BAICKER, Ph.D.	
/s/ Erik Fyrwald	Director
ERIK FYRWALD	
/s/ Mary Lynne Hedley, Ph.D.	Director
MARY LYNNE HEDLEY, Ph. D.	
/s/ Jamere Jackson	Director
JAMERE JACKSON	
/s/ Kimberly Johnson	Director
KIMBERLY JOHNSON	
/s/ William Kaelin, Jr., M.D.	Director
WILLIAM KAE LIN, JR., M.D.	
/s/ Juan Luciano	Director
JUAN LUCIANO	
/s/ Marschall Runge, M.D., Ph.D.	Director
MARSCHALL RUNGE, M.D., Ph.D.	
/s/ Gabrielle Sulzberger	Director
GABRIELLE SULZBERGER	
/s/ Karen Walker	Director
KAREN WALKER	

Trademarks Used In this Annual Report on Form 10-K

Trademarks or service marks owned by Eli Lilly and Company or its affiliates, when first used in each item of this Annual Report on Form 10-K, appear with an initial capital and are followed by the symbol ® or ™, as applicable. In subsequent uses of the marks in the item, the symbols may be omitted.

Actos® is a registered trademark of Takeda Pharmaceutical Company Limited.

Baqsimi® is a registered trademark of Amphastar Pharmaceuticals, Inc.

Glyxambi®, Jardiance®, Jentadueto®, Synjardy®, Trajenta®, and Trijardy® are trademarks of Boehringer Ingelheim International GmbH.

Tyvyt® is a registered trademark of Innovent Biologics (Suzhou) Co., Ltd.

Qbrexza® is a registered trademark of Journey Medical Corporation.

Zyprexa® is a registered trademark of Cheplapharm Arzneimittel GmbH.