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Convertible Debt
Current Expected Credit Losses
Disposals of Long-Lived Assets and Discontinued Operations
Distinguishing Liabilities From Equity
Earnings per Share
Environmental Obligations and Asset Retirement Obligations
Equity Method Investments and Joint Ventures
Equity Method Investees — SEC Reporting Considerations
Fair Value Measurements and Disclosures
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Leases
Noncontrolling Interests
Non-GAAP Financial Measures
Revenue Recognition
SEC Comment Letter Considerations, Including Industry Insights
Segment Reporting
Share-Based Payment Awards
Statement of Cash Flows
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About Deloitte’s Life Sciences and Health Care Practice

Deloitte and its subsidiaries have approximately 312,000 professionals with a single focus: serving our clients and helping them solve their toughest problems. Deloitte’s Life Sciences and Health Care practice is among the largest in the world, leveraging the extensive knowledge, skills, and experience of over 24,000 professionals in 90 countries. Our practice offers a distinctive menu of professional services delivered in an integrated approach that address all segments of the life sciences and health care industry. We work in four key business areas — audit, advisory, tax, and consulting — but our real strength comes from combining the talents of those groups to address clients’ needs. Bloomberg Businessweek and Fortune consistently rank our organization among the best places in which to work, which is good news for our talent and our clients alike. When the best people tackle the most compelling challenges, everyone wins.

If you have any questions about this publication or ways in which we can help your organization, please contact the following Deloitte industry specialists.

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Preface

March 2020

To our clients, colleagues, and other friends:

The life sciences ecosystem encompasses a vast array of entities that discover, develop, and manufacture health care products. Such entities include pharmaceutical manufacturers; biotechnology companies; medical device, diagnostic, and medical equipment manufacturers; and service companies such as drug distributors, contract research organizations (CROs), contract manufacturing organizations (CMOs), and health technology companies.

Finance and accounting professionals in the industry face complex issues and must exercise significant judgment in applying existing rules to matters such as research and development (R&D) costs, acquisitions and divestitures, consolidation, contingencies, revenue recognition, income taxes, financial instruments, and financial statement presentation and disclosure. The 2020 edition of Deloitte’s Life Sciences Industry Accounting Guide (the “Guide”) addresses these and other relevant topics affecting the industry this year. It includes interpretive guidance, illustrative examples, recent standard-setting developments (through February 28, 2020), and key differences between U.S. GAAP and IFRS® Standards. In addition, this Guide discusses the outlook for the life sciences industry in 2020. Further, while many of the key accounting and financial reporting considerations stemming from the coronavirus disease 2019 (COVID-19) outbreak are related to topics addressed in this Guide, we encourage you to review Deloitte’s March 25, 2020, Financial Reporting Alert, which discusses accounting and financial reporting considerations associated with COVID-19 that are broadly applicable as well as those that apply specifically to the life sciences industry.

Appendix B lists the titles of standards and other literature we cited, and Appendix C defines the abbreviations we used.

This Guide is available on the Deloitte Accounting Research Tool (DART).

We hope this Guide helps you navigate the various accounting and reporting challenges you face. We encourage you to contact your Deloitte team for additional information and assistance.

Sincerely,

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Chapter 3 — Research and Development

3.1 Introduction

New product development in the life sciences industry can be both time-consuming and costly. As markets have evolved over recent years, profitability has been constrained as a result of pricing challenges and scrutiny, rising materials and development costs, increased difficulty in sourcing innovative solutions, and more stringent government regulations.

In response to these pressures, companies are focusing on specialized R&D models that require enhanced capabilities to promote greater R&D efficiency. Life sciences companies are working to reduce research costs by outsourcing research to external partners, making acquisitions of promising products in clinical-stage development, enhancing drug discovery and development platforms, and optimizing product approval timelines. In addition, companies are entering into various funding relationships to reduce the burden of R&D expense through collaborations, licensing arrangements, partnerships, and other alliances.

As these R&D arrangements become more complex, so do the accounting requirements and considerations that entities must evaluate. Companies need to consider the substance of the R&D relationship, risks associated with such arrangements, and related deliverables to determine the appropriate accounting models and literature that will apply.

In Section 3.2 below, we explore various R&D issues that many life sciences companies encounter, the related accounting guidance, and recent SEC observations regarding registrants’ accounting for and disclosure of R&D costs.

3.2 Industry Issues

3.2.1 R&D Funding Arrangements

The need for new sources of capital in the life sciences industry has led to innovative R&D funding arrangements with diverse terms and conditions. In these arrangements, passive third-party investors often provide funds to offset the cost of R&D programs in exchange for milestone payments or other forms of consideration (typically sales-based royalties) that are contingent on the successful completion of such R&D programs and the related approval for the compound or compounds being developed. Typically, life sciences companies retain all IP rights to any compounds resulting from the R&D efforts, and the investor does not receive repayment or any other forms of consideration if the compound or compounds subject to the R&D arrangement are not successfully developed and commercialized.
Q&A 3-1  Considerations Relevant to a Life Sciences Company’s Accounting for an R&D Funding Arrangement

**Question**

What factors should a life sciences company that receives R&D funding consider when accounting for an R&D funding arrangement?

**Answer**

To determine the appropriate accounting treatment, the company should first consider whether the arrangement includes elements that need to be accounted for under the guidance on derivatives in ASC 815.

ASC 815-10-15-83 defines a derivative instrument as follows:

A derivative instrument is a financial instrument or other contract with all of the following characteristics:

a. Underlying, notional amount, payment provision. The contract has both of the following terms, which determine the amount of the settlement or settlements, and, in some cases, whether or not a settlement is required:
   1. One or more underlyings
   2. One or more notional amounts or payment provisions or both.

b. Initial net investment. The contract requires no initial net investment or an initial net investment that is smaller than would be required for other types of contracts that would be expected to have a similar response to changes in market factors.

c. Net settlement. The contract can be settled net by any of the following means:
   1. Its terms implicitly or explicitly require or permit net settlement.
   2. It can readily be settled net by a means outside the contract.
   3. It provides for delivery of an asset that puts the recipient in a position not substantially different from net settlement.

Depending on the terms of the transaction, an R&D funding arrangement may contain an underlying (e.g., the underlying net sales, which are dependent on regulatory approval) and a payment provision (e.g., sales-based royalty payments to the investor, which are based on future levels of net sales of the compound being developed) without an initial net investment (i.e., the investor may only be required to fund the R&D costs as such costs are incurred). In addition, R&D funding arrangements often contain the characteristic of explicit net settlement since they are settled in cash.

If the life sciences company determines that its R&D funding arrangement meets the definition of a derivative instrument, it should assess whether the arrangement represents a contract that would meet any of the scope exceptions in ASC 815. For example, in certain transactions, the life sciences company is only required to make royalty payments to the investor if the compound is approved and net sales occur. In these circumstances, the scope exception described in
ASC 815-10-15-13(e) and ASC 815-10-15-59(d) for certain contracts that are not traded on an exchange may apply. ASC 815-10-15-13(e) and ASC 815-10-15-59(d) state the following:

**Instruments Not Within Scope**

15-13 Notwithstanding the conditions in paragraphs 815-10-15-83 through 15-139, the following contracts are not subject to the requirements of this Subtopic if specified criteria are met: . . .

e. Certain contracts that are not traded on an exchange

**Certain Contracts That Are Not Traded on an Exchange**

15-59 Contracts that are not exchange-traded are not subject to the requirements of this Subtopic if the underlying on which the settlement is based is any one of the following . . .

d. Specified volumes of sales or service revenues of one of the parties to the contract. (This scope exception applies to contracts with settlements based on the volume of items sold or services rendered, for example, royalty agreements. This scope exception does not apply to contracts based on changes in sales or revenues due to changes in market prices.) [Emphasis added]

If the life sciences company determines that its R&D funding arrangement does not include elements that need to be accounted for under the guidance on derivatives in ASC 815, it should consider, among other things, the risks associated with the R&D program being funded as well as the deliverable(s) (i.e., license rights to IP subject to the R&D program) to be provided to the funding party. Such factors may inform the company's decision about which accounting literature to consider next, particularly if the company concludes that the arrangement is a contract to perform services that should be accounted for under ASC 606.

A critical assessment is whether the life sciences company has an obligation to repay the funding party or is under a contract to perform R&D services. If a determination is made at the onset of the arrangement that successful completion of the R&D is probable, it may be more appropriate to treat the arrangement as the sale of future revenues under ASC 470-10-25 than as an R&D funding arrangement under ASC 730-20. The application of ASC 470-10-25 would generally result in debt classification for the funding because of the life sciences company's continuing involvement with the associated R&D.

If a conclusion is reached that ASC 470-10-25 does not apply, the life sciences company should next evaluate ASC 730-20 to determine whether the arrangement represents an obligation to repay the funding party or a contract to perform services. ASC 730-20-25-3 notes that “[i]f the entity is obligated to repay any of the funds provided by the other parties regardless of the outcome of the research and development, the entity shall estimate and recognize that liability. This requirement applies whether the entity may settle the liability by paying cash, by issuing securities, or by some other means.”

ASC 730-20-25-4 cautions preparers that to support a conclusion that a liability does not exist, “the transfer of the financial risk involved with research and development from the entity to the other parties must be substantive and genuine.” The provision also states that “[t]o the extent that the entity is committed to repay any of the funds provided by the other parties regardless of the outcome of the research and development, all or part of the risk has not been transferred.”
In addition, ASC 730-20-25-4 lists the following examples of circumstances in which risk has not been transferred:

a. The entity guarantees, or has a contractual commitment that assures, repayment of the funds provided by the other parties regardless of the outcome of the research and development.

b. The other parties can require the entity to purchase their interest in the research and development regardless of the outcome.

c. The other parties automatically will receive debt or equity securities of the entity upon termination or completion of the research and development regardless of the outcome.

Even in the absence of an explicit requirement for repayment, there may be other circumstances in which the entity will most likely bear the risk associated with the failure of the R&D activities. ASC 730-20-25-5 states that “[i]f those conditions suggest that it is probable that the entity will repay any of the funds regardless of the outcome of the research and development, there is a presumption that the entity has an obligation to repay the other parties.” Further, such a presumption “can be overcome only by substantial evidence to the contrary.” ASC 730-20-25-6 describes the following circumstances as leading to the presumption that the entity will repay the other parties:

a. The entity has indicated an intent to repay all or a portion of the funds provided regardless of the outcome of the research and development.

b. The entity would suffer a severe economic penalty if it failed to repay any of the funds provided to it regardless of the outcome of the research and development.

c. A significant related party relationship between the entity and the parties funding the research and development exists at the time the entity enters into the arrangement.

d. The entity has essentially completed the project before entering into the arrangement.

**Connecting the Dots**

Companies in the life sciences industry typically assign probability of technical and regulatory success (PTRS) rates to development-stage compounds on the basis of estimates of the likelihood that such compounds eventually will be approved by the FDA or other regulatory organizations. Because companies often use PTRS rates to determine resource and capital allocation strategies, it is often important for companies to consider the PTRS rate for a respective compound in evaluating whether successful completion of the R&D is probable at the onset of the arrangement. However, there is no “bright line” PTRS rate for determining whether successful completion of the R&D is considered probable. Therefore, companies should consider all facts and circumstances in making such a determination.

In practice, investors often desire certain terms and conditions that reduce risk. However, such terms and conditions can complicate an analysis under ASC 730-20 and could ultimately trigger liability accounting for an R&D funding arrangement. Various deal structures favored by investors can therefore raise significant doubt regarding whether a transfer of R&D risk is substantive and genuine:

- **Multiple products (the “basket approach”)** — An investor’s risk is reduced by having an increased number of covered products as well as by other factors (e.g., number of products, stage of development of each, payment mechanisms).

- **Repayment upon achievement of clinical development milestones** — An investor’s risk is reduced if repayment is triggered upon achievement of an event before regulatory approval (e.g., upon “proof of concept” demonstrating that the drug may be efficacious).
• **Substitution rights** — An investor’s risk is reduced by the right to replace a failed molecule or project in the R&D arrangement with one or more other molecules or projects that still have the potential to be commercialized.

• **Royalty rates based on commercialization sequence** — An investor’s risk is reduced by assigning a royalty rate (typically the highest) to the first successful outcome within a portfolio of products, with lower rates assigned to each successive outcome that has no direct economic correlation to product market potential or probability of success.

• **Rights to unrelated revenue streams** — An investor’s risk is reduced by incorporating rights to cash flows from an unrelated revenue stream, such as a royalty on a separate and distinct product for which the investor did not fund the related R&D. If cash flows associated with an unrelated revenue stream (i.e., milestone or royalty payments related to sales of developed products unrelated to the compounds that were subject to the R&D funding arrangement) are included in accordance with the terms of the arrangement, the guidance in ASC 470-10-25 on sales of future revenue streams should be considered.

**Connecting the Dots**

Because of the inherent uncertainty associated with compounds in the R&D process, life sciences companies often perform clinical trials, hoping to obtain approval to treat multiple disease types (commonly referred to as “indications” or “labels”). While such R&D programs are often developed specifically to determine the effectiveness and safety of a compound to treat a particular indication, companies typically are unable to track sales of a product by indication when the product has been granted approval for more than one indication. Therefore, in light of the guidance above, a life sciences company should assess whether sales-based royalties to be paid on overall product sales should be considered an unrelated revenue stream if the company’s R&D funding arrangement was specific to certain indications and did not include R&D activities for all indications for which the respective compound is approved and marketed. Such evaluation is critical if the compound is already approved and marketed for certain indications.

In addition, life sciences companies often conduct R&D programs to obtain regulatory approval in certain jurisdictions (or markets). If a life sciences company’s R&D funding arrangement is specifically related to R&D studies to obtain approval in a certain jurisdiction, but the arrangement calls for future sales-based royalties on global product sales (if and when such a compound is approved), the company should evaluate whether such sales-based royalties to be paid on overall product sales should be considered an unrelated revenue stream. This evaluation is particularly important if the compound is already approved and marketed in certain jurisdictions.

If an entity concludes that substantive and genuine risk transfer has occurred, questions may then arise about the appropriate income statement classification of the funding received from the investor since ASC 730-20 does not provide guidance on the income statement classification for funding accounted for as an obligation to perform contractual services for others. ASC 808 provides guidance on classification of payments for transactions between collaboration partners, and ASC 606 provides guidance on gross versus net presentation of revenue.

We believe that entities should consider the nature of their ongoing, major, or central operations in determining the appropriate income statement classification. If an entity’s arrangement is consistent with the entity’s central operations (i.e., the entity regularly performs R&D on behalf of others who are generally viewed as customers), classification as revenue may be appropriate. If the arrangement is inconsistent with the entity’s central operations, classification as contra-R&D expense or other income may be more appropriate.
In determining whether to classify funding from an investor as contra-R&D expense or as other income, a life sciences entity might consider the extent of involvement of the counterparty in the R&D effort. For example, if the counterparty is actively involved through participation on a joint steering committee or in the performance of certain R&D activities, classification as contra-R&D expense may be appropriate. This classification may be further supported by analogy to ASC 410-30-45-4, which states that “[c]redits arising from recoveries of environmental losses from other parties shall be reflected in the same income statement line.” That is, the life sciences entity might conclude that the funding to be received from the investor (i.e., the “credits”) should be reflected in the same income statement line item as the expenses to which the funding is related. Alternatively, if the counterparty is only passively involved, the entity might conclude that classification as other income may be more appropriate.

### 3.2.1.1 R&D Funding Arrangements Involving New Legal Entities

**Q&A 3-2** Considerations Relevant to a Pharmaceutical Company’s Accounting for an R&D Funding Arrangement That Involves the Formation of a New Legal Entity

**Question**

What considerations should a pharmaceutical company take into account when an R&D funding arrangement involves the formation of a new legal entity?

**Answer**

Historically, it was not common for separate legal entities to be created to facilitate R&D funding arrangements; however, some recent arrangements have included the formation of a new legal entity. Typically, the new legal entity is 100 percent owned by a financial investor, and the pharmaceutical company may be involved through participation on a committee (e.g., steering committee) or by performing R&D services through an outsourcing arrangement. The pharmaceutical company may also have the right or option to reacquire the rights to the compound(s) at a later date.

When an R&D arrangement involves the formation of a new legal entity, the pharmaceutical company must also consider the consolidation guidance in ASC 810 to determine whether it is required to consolidate the legal entity. Typically, the R&D legal entity is a variable interest entity (VIE) because (1) the power to direct the activities of the legal entity is not possessed by the equity investors or (2) the pharmaceutical company’s right or option to reacquire the rights to the compound effectively limits the returns that can be received by the financial investor. In these situations, the evaluation should include consideration of whether the pharmaceutical company has the power to direct the activities most significant to the legal entity’s economic performance. For example, the power to make decisions related to the design or operation of clinical studies may indicate that the pharmaceutical company has power over the entity’s most significant activities and that therefore, consolidation may be required.

The power to make the most significant decisions could reside with different parties depending on a product candidate’s stage of development and should be considered in the consolidation analysis. Further, careful consideration should also be given when either the decisions of the financial investor(s) are passive or predetermined or the pharmaceutical company has a fixed-price call option to acquire the legal entity since these types of circumstances could suggest that (1) the financial investors lack the characteristics of a controlling financial interest and (2) the pharmaceutical company controls and should consolidate the legal entity.
If a pharmaceutical company concludes that consolidation of an R&D entity is required, the percentage of equity not owned by the pharmaceutical company would be presented as a noncontrolling interest (which could be 100 percent of the legal entity’s equity). Further, it is important to determine whether the financial investor’s equity investment has all of the characteristics of equity. If it does not, temporary equity or liability classification of the noncontrolling interest may be required depending on the facts and circumstances.

### 3.2.1.2 R&D Arrangements Involving a Sponsor of a New Company

For arrangements involving the creation of a new legal entity, a reporting entity should first determine whether the new legal entity meets the definition of a VIE and, if so, whether the reporting entity should consolidate the VIE (as discussed above). If the new legal entity is not a VIE, or if the new legal entity is a VIE but is not consolidated by the reporting entity, additional consideration of the guidance in ASC 810-30 may be required.

### Q&A 3-3 Whether an R&D Arrangement in Which a Sponsor Capitalizes a New Company Should Be Accounted for Under ASC 810-30

ASC 810-30-55 contains an illustrative example that discusses R&D arrangements in which a sponsor capitalizes a new entity (“Newco”) with cash and rights to certain technology developed by the sponsor in exchange for Class A and Class B common stock in Newco. The Class B common shares convey essentially no financial interest to the sponsor and, other than certain blocking rights, provide the sponsor essentially no voting rights. The sponsor subsequently distributes the Class A common stock to its shareholders subject to a purchase option held by the sponsor. The sponsor then receives funds from Newco to perform R&D activities.

ASC 810-30-25-3 states that the sponsor of an R&D arrangement should account for the arrangement as follows:

- a. Reclassify the cash contributed to the new entity as restricted cash at the time of distribution of the new entity’s Class A common stock.
- b. Recognize research and development expense as the research and development activities are performed.
- c. Account for the distribution of the new entity’s Class A common stock as a dividend to common stockholders of the sponsor.

However, this accounting applies narrowly to the fact pattern outlined in ASC 810-30-55. For an alternative fact pattern, consider the scenario in the example below.

**Example**

An employee of Entity A announces his intention to leave A and start a new technology company. He and three other individuals unrelated to A subsequently incorporate the new company, Entity B. Entity A agrees to effectively act as venture capitalist for B. The founders of B contribute nominal consideration to their start-up venture in exchange for B common stock, and A contributes $10 million to the venture in exchange for B preferred stock.

The terms of the agreement between A and B stipulate that while both parties would agree on the plan for developing a new technology, B would perform the development efforts at its expense and would have to obtain approval from A before subcontracting any of its obligations. After delivery of the technology to A, B has the right to put to A, and A has the right to call from B, all outstanding common shares of B. The terms of the put and call are identical and set fixed prices for the technology on certain dates, with the put and call terminating if the technology is not delivered by the deadline established in the agreement.
**Question**

Should A account for its investment in B by applying the guidance in ASC 810-30?

**Answer**

No. ASC 810-30 specifies the type of arrangement to which it applies. The scenario in this Q&A differs from the example in ASC 810-30-55 in the following key respects:

- The formation of the new company is not completed through capitalization of a new entity and a subsequent spin-off.
- The R&D work is completed by the new company and not by the sponsor.
- The put and call are exercisable only if the product is delivered.
- The new company’s operations, except for subcontracting, are not subject to the approval of the sponsor.

**Connecting the Dots**

In September 2017, the FASB issued a proposed ASU that would reorganize the consolidation guidance in ASC 810 by creating a new Codification topic, ASC 812, with separate subtopics for the guidance on (1) the VIE model and (2) the voting interest entity model. Under the proposal, the guidance currently in ASC 810-30 would be superseded. For additional information on the proposed ASU, see Deloitte’s October 5, 2017, *Heads Up*.

In June 2018, the FASB met to discuss comment letter feedback on the proposed ASU and decided to continue its existing project on reorganizing the consolidation guidance in ASC 810.

**3.2.2 R&D Cost Classification**

R&D costs are pivotal to life sciences entities as they fuel the future pipeline. Entities can spend billions of dollars on R&D costs in hopes of developing and gaining approval for their next blockbuster drug or therapy. These costs are generally classified separately in the income statement and are often a focus of financial statement users since they may provide insight into the entity’s future revenues.

ASC 730-10-20 defines “research and development” as follows:

<table>
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<th>ASC 730-10 — Glossary</th>
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<tr>
<td><strong>Research and Development</strong></td>
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<td>Research is planned search or critical investigation aimed at discovery of new knowledge with the hope that such knowledge will be useful in developing a new product or service (referred to as product) or a new process or technique (referred to as process) or in bringing about a significant improvement to an existing product or process.</td>
</tr>
<tr>
<td>Development is the translation of research findings or other knowledge into a plan or design for a new product or process or for a significant improvement to an existing product or process whether intended for sale or use. It includes the conceptual formulation, design, and testing of product alternatives, construction of prototypes, and operation of pilot plants.</td>
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ASC 730-10-25-2 explains the elements of costs to be identified with R&D activities:

### ASC 730-10

**25-2** Elements of costs shall be identified with research and development activities as follows . . .:

a. **Materials, equipment, and facilities.** The costs of materials (whether from the entity's normal inventory or acquired specially for research and development activities) and equipment or facilities that are acquired or constructed for research and development activities and that have alternative future uses (in research and development projects or otherwise) shall be capitalized as tangible assets when acquired or constructed. The cost of such materials consumed in research and development activities and the depreciation of such equipment or facilities used in those activities are research and development costs. However, the costs of materials, equipment, or facilities that are acquired or constructed for a particular research and development project and that have no alternative future uses (in other research and development projects or otherwise) and therefore no separate economic values are research and development costs at the time the costs are incurred . . .

b. **Personnel.** Salaries, wages, and other related costs of personnel engaged in research and development activities shall be included in research and development costs.

c. **Intangible assets purchased from others.** The costs of intangible assets that are purchased from others for use in research and development activities and that have alternative future uses (in research and development projects or otherwise) shall be accounted for in accordance with Topic 350. The amortization of those intangible assets used in research and development activities is a research and development cost. However, the costs of intangibles that are purchased from others for a particular research and development project and that have no alternative future uses (in other research and development projects or otherwise) and therefore no separate economic values are research and development costs at the time the costs are incurred.

d. **Contract services.** The costs of services performed by others in connection with the research and development activities of an entity, including research and development conducted by others in behalf of the entity, shall be included in research and development costs.

e. **Indirect costs.** Research and development costs shall include a reasonable allocation of indirect costs. However, general and administrative costs that are not clearly related to research and development activities shall not be included as research and development costs.

### Connecting the Dots

**Assets Acquired or Constructed for Use in R&D Activities**

A life sciences company may need to acquire facilities and equipment to contribute to the development of a product candidate currently proceeding through the stages of clinical development.

In a manner consistent with ASC 730-10-25-2(a) and (c), tangible assets that are acquired or constructed, and intangible assets that are acquired, for use in R&D activities in a transaction other than a business combination are capitalized only if they have alternative future uses. Otherwise, the costs for such assets are R&D costs at the time such costs are incurred and are charged to expense in accordance with ASC 730-10-25-1.
Paragraph 3.17 of the AICPA Accounting and Valuation Guide Assets Acquired to Be Used in Research and Development Activities (the “AICPA Guide”) discusses the determination of whether such assets have an alternative future use:

The [AICPA IPR&D Task Force (the “task force”)] believes that the determination of whether an alternative future use exists for an asset is based on specific facts and circumstances. However, for an acquired tangible asset to be used in R&D activities (for example, computer testing equipment used in an R&D department), the task force believes that there is a rebuttable presumption that such asset has an alternative future use because that asset generally has separate economic value (other than scrap or insignificant value) independent of the successful completion and commercialization of the IPR&D project. This presumption would be overcome, for example, if it were reasonably expected that the reporting entity will use that asset only in a specific IPR&D project that had commenced before the acquisition date.

To illustrate the application of this guidance, suppose that Company X acquires a phase III drug in an asset acquisition and separately purchases various equipment (e.g., tanks, mixers, centrifuges) to be used in connection with the development of the drug. Although X acquires the equipment to support a specific product candidate, the nature of the equipment is common to pharmaceutical preparation and may have economic value apart from the specific IPR&D project (i.e., the equipment could be sold in a secondary market for an amount other than scrap value). Consequently, it may be appropriate to capitalize the cost of the equipment.

Conversely, suppose that X acquires (or internally develops) certain medical testing equipment that (1) is reasonably expected to be used only in a specific IPR&D project and (2) does not have any further use or separate economic benefit to the company or others. In accordance with ASC 730-10-25-2(a), X would immediately expense the cost, less salvage value, of the medical testing equipment since there is no alternative future use.

**Costs Incurred to Obtain Regulatory Approval of Equipment That Has An Alternative Future Use**

Life sciences companies may incur costs associated with the regulatory approval of manufacturing equipment that has an alternative future use. An entity may be required to produce multiple batches of a finished product in connection with the regulatory approval process of the manufacturing equipment.

In assessing whether the costs associated with obtaining regulatory approval of the manufacturing equipment should be capitalized, the entity should consider analogizing to the guidance in ASC 835-20-05-01, which states that the “historical cost of acquiring an asset includes the costs necessarily incurred to bring it to the condition and location necessary for its intended use.” Accordingly, if activities performed as part of the regulatory approval process (i.e., the production of multiple batches of a finished product) are required to bring manufacturing equipment to the condition necessary for its intended use, the associated costs may be capitalized. Abnormal costs incurred during the regulatory approval process, such as costs associated with rework, should be expensed as incurred since they do not represent costs that are “necessarily incurred to bring [the asset] to the condition and location necessary for its intended use.”

See **Section 3.2.3** for considerations related to the capitalization of prelaunch inventory, which could include batches of inventory produced during the validation process.
Chapter 3 — Research and Development

Costs of Services Performed by Others in Connection With R&D Activities

Life sciences companies frequently enter into contract research arrangements with third parties (i.e., CROs) to perform research on compounds under development. The payment terms under these arrangements may be based on defined milestones (e.g., upon delivery of the research services) rather than on time incurred.

In a manner consistent with ASC 730-10-25-2(d), the costs of services performed by others in connection with an entity's R&D activities should be accounted for as R&D costs of the entity and should be expensed as the entity becomes contractually obligated for them. To properly expense the contract research costs under the arrangement, the entity may need to obtain periodic progress reports from the vendors on the level of services provided to date for which the entity is contractually obligated to pay. This is because the timing of payments would not necessarily indicate the entity's contractual obligation to pay for services performed by the vendors at a particular point in time. Instead, estimates are often based on contracted amounts adjusted for the percentage of work completed to date, which may be measured on the basis of patient enrollments, the number of clinical sites opened, the duration for which patients will be enrolled in the study, or some other reasonable measure of progress.

In addition, ASC 730-10-55-1 and 55-2 list examples of activities that are commonly included in, or excluded from, R&D activities:

<table>
<thead>
<tr>
<th><strong>ASC 730-10</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Examples of Activities Typically Included in Research and Development</strong></td>
</tr>
<tr>
<td><strong>55-1</strong> The following activities typically would be considered research and development within the scope of this Topic (unless conducted for others under a contractual arrangement — see paragraph 730-10-15-4[a]):</td>
</tr>
<tr>
<td>a. Laboratory research aimed at discovery of new knowledge</td>
</tr>
<tr>
<td>b. Searching for applications of new research findings or other knowledge</td>
</tr>
<tr>
<td>c. Conceptual formulation and design of possible product or process alternatives</td>
</tr>
<tr>
<td>d. Testing in search for or evaluation of product or process alternatives</td>
</tr>
<tr>
<td>e. Modification of the formulation or design of a product or process</td>
</tr>
<tr>
<td>f. Design, construction, and testing of preproduction prototypes and models</td>
</tr>
<tr>
<td>g. Design of tools, jigs, molds, and dies involving new technology</td>
</tr>
<tr>
<td>h. Design, construction, and operation of a pilot plant that is not of a scale economically feasible to the entity for commercial production</td>
</tr>
<tr>
<td>i. Engineering activity required to advance the design of a product to the point that it meets specific functional and economic requirements and is ready for manufacture</td>
</tr>
<tr>
<td>j. Design and development of tools used to facilitate research and development or components of a product or process that are undergoing research and development activities.</td>
</tr>
</tbody>
</table>
Examples of Activities Typically Excluded From Research and Development

55-2 The following activities typically would not be considered research and development within the scope of this Topic:

a. Engineering follow-through in an early phase of commercial production
b. Quality control during commercial production including routine testing of products
c. Trouble-shooting in connection with break-downs during commercial production
d. Routine, ongoing efforts to refine, enrich, or otherwise improve upon the qualities of an existing product
e. Adaptation of an existing capability to a particular requirement or customer’s need as part of a continuing commercial activity
f. Seasonal or other periodic design changes to existing products
g. Routine design of tools, jigs, molds, and dies
h. Activity, including design and construction engineering, related to the construction, relocation, rearrangement, or start-up of facilities or equipment other than the following:
   1. Pilot plants (see [h] in the preceding paragraph)
   2. Facilities or equipment whose sole use is for a particular research and development project (see paragraph 730-10-25-2[a]).
i. Legal work in connection with patent applications or litigation, and the sale or licensing of patents.

Connecting the Dots

As noted in the above examples, legal work in connection with patent applications or litigation does not meet the definition of R&D. However, questions about whether an entity may capitalize costs related to such legal work sometimes arise. AICPA Technical Q&A Section 2260.03 provides the following guidance on patent defense costs:

Inquiry — A company is sued for patent infringement. Should the cost to defend the patent be capitalized or expensed?

Reply — The choice of capitalizing or expensing depends on the outcome of the lawsuit. FASB Concept No. 6, Elements of Financial Statements — a replacement of FASB Concepts Statement No. 3 (incorporating an amendment of FASB Concepts Statement No. 2), paragraph 247 states “...the legal and other costs of successfully defending a patent from infringement are ‘deferred legal costs’ only in the sense that they are part of the cost of retaining and obtaining the future economic benefit of the patent.”

If defense of the patent lawsuit is successful, costs may be capitalized to the extent of an evident increase in the value of the patent. Legal costs which relate to an unsuccessful outcome should be expensed.

Accordingly, capitalization of patent defense costs is appropriate only when a successful patent defense is likely to occur and the value of the patent is expected to increase as a result. Often, defense of a patent maintains rather than increases the value of the patent, in which case defense costs should be expensed as incurred.

In addition, because of the uncertainty associated with the successful development of IP rights, legal costs incurred in connection with a patent application are generally expensed as incurred.

ASC 730-10-15-4(c) and (e) exclude from the scope of ASC 730 the “acquisition, development, or improvement of a process by an entity for use in its selling or administrative activities” and “[m]arket research or market testing activities,” respectively. Therefore, such transactions and activities should not be classified as R&D.
Determining the classification of certain costs may be straightforward when the costs align closely with the definition and examples of R&D in ASC 730. However, certain costs associated with some activities require more judgment since the activities can have characteristics of both R&D and selling and marketing. Costs associated with certain activities that might require further judgment for classification as R&D under ASC 730 include, but are not limited to, the following:

- **Phase IV studies** — Conducted after the drug or treatment has been marketed, these studies are frequently performed to gather information on the drug's effect in various populations and any side effects associated with long-term use.

- **Investigator-initiated research (IIR)** — IIR projects are similar to phase IV studies but are conducted by third-party investigators with oversight provided by the entity. Both phase IV studies and IIR provide a framework for research to increase the understanding of diseases, disease management, or drug use and effects in various patient populations.

- **Grants** — Grants fund independent medical education programs that are intended to enhance the knowledge base of health care professionals and provide a forum for discussion of new data, information, and other knowledge that could generate ideas related to the development of other products.

- **Pharmacovigilance** — Entities incur pharmacovigilance costs to collect, analyze, and report safety data associated with the use of a drug. Information obtained through pharmacovigilance could lead to new knowledge that may result in the significant modification of existing products, modifications to the method of use for existing products, or the development of new products to curb adverse reactions in patient populations.

- **Medical science liaison (MSL)** — An MSL organization delivers to key thought leaders, professional societies, and practitioners clinical and scientific data and clinical education associated with an entity's products and various disease states.

- **Risk evaluation and mitigation strategy (REMS)** — A REMS is a safety strategy that entities use to manage a known or potentially serious risk associated with a medication and to enable patients to have continued access to the medication by managing its safe use. The FDA may require a REMS as part of the approval of a new product, or for an approved product when new safety information arises. Activities under a REMS may include (1) providing training on proper prescribing and (2) monitoring improper activities associated with the products related to the program.

**Connecting the Dots**

Certain costs are incurred to facilitate the development of new products or the enhancement/alternative use of existing products, which can lead to new regulatory approvals or the extension of patent protection. These types of costs may be consistent with those involved with “[s]earching for applications of new research findings or other knowledge” (ASC 730-10-55-1(b)) or the “[c]onceptual formulation and design of possible product or process alternatives” (ASC 730-10-55-1(c)) and therefore may be classified as R&D costs. Other types of costs, however, are incurred primarily to yield information (1) that may be useful for expanding access to or the understanding of currently marketed products or (2) as a result of an ongoing compliance program that does not provide significant information that can be used in future R&D. These types of costs may be more appropriately classified as marketing, selling, general, or administrative expenses. It is important for entities to consider all facts and circumstances in determining the proper income statement classification.
### 3.2.2.1 SEC Comment Letter Themes Related to R&D Cost Classification

#### Examples of SEC Comments

- Please tell us whether you track any component of your research and development expenses by drug candidate . . . . If so represent to us that you will revise your disclosure in future filings to disaggregate research and development expenses by drug candidate for each period presented. If not, tell us whether you can provide more granular information, perhaps by nature, such as manufacturing expenses, clinical trial costs, preclinical study expenses, etc. in order to provide more insight into your research and development activities. Otherwise tell us why you cannot provide such additional detail or why its disclosure is not warranted.

- Please provide us an analysis of research and development expenses incurred for each year presented by product candidate. Consider providing us proposed disclosure to be included in future periodic reports to improve your disclosure.

- Please provide us a breakdown of your research and development ("R&D") expenses incurred for each year presented by product candidate or project. To the extent that you do not track costs by project, please explain how your R&D costs are managed and how they are reported within the organization. To the extent that you can distinguish your R&D costs by discovery, preclinical and clinical development categories and/or therapeutic class or by the type of cost, please provide us with this information. Please also tell us your consideration of disclosing this information given that you consider research and development to be essential to your business.

- [Y]ou indicate that your external research and development costs include legal fees. Please tell us:
  - The nature of these legal fees;
  - The amount of legal fees included in research and development expenses in each of the last three fiscal years and the [first through third quarters of 201X]; and
  - How these legal fees meet the definition of either research or development in ASC 730-10-20 and your consideration of the guidance in ASC 730-10-55-2i.

The SEC staff often asks registrants with significant R&D costs to support the classification of the costs comprising the amounts disclosed and explain how the classification is in accordance with ASC 730-10-20. Registrants should be prepared to support their R&D classification by demonstrating careful evaluation of costs under ASC 730. For more information about themes we have identified in our review of SEC comment letters issued to registrants in the life sciences industry, see Section 6.4 of Deloitte's A Roadmap to SEC Comment Letter Considerations, Including Industry Insights ("SEC Comment Letter Roadmap").

### 3.2.3 Capitalization of Prelaunch Inventory

Because of the inherent complexities related to product development and manufacturing, life sciences companies may start producing product well in advance of the anticipated product launch date to ensure that there is sufficient plant capacity and available stock to meet forecasted demand. However, the success of new drug (and abbreviated new drug) applications is inherently uncertain, and companies may experience delays in achieving regulatory approval. Consider the following scenarios:

<table>
<thead>
<tr>
<th>Branded Product</th>
<th>Generic Product</th>
<th>Medical Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>A new drug application has been submitted to the FDA for review, and phase III clinical trials have been completed.</td>
<td>An abbreviated new drug application has been submitted to and accepted by the FDA for review.</td>
<td>A 510(k) premarket approval application has been submitted to and accepted by the FDA for review.</td>
</tr>
</tbody>
</table>
In each of the above scenarios, a life sciences entity must use judgment in determining whether costs incurred to manufacture a product in advance of FDA approval should be capitalized as inventory or expensed as incurred. To qualify for capitalization, the prelaunch inventory must qualify as an asset, which is defined in paragraph 26 of FASB Concepts Statement 6 as follows:

An asset has three essential characteristics: (a) it embodies a probable future benefit that involves a capacity, singly or in combination with other assets, to contribute directly or indirectly to future net cash inflows, (b) a particular entity can obtain the benefit and control others’ access to it, and (c) the transaction or other event giving rise to the entity’s right to or control of the benefit has already occurred.

When evaluating the concept of “probable future benefit” for prelaunch inventory before regulatory approval, a life sciences entity may consider:

• The entity’s prior history with approvals of similar products.
• The estimated timing of obtaining regulatory approval.
• Threatened or anticipated litigation challenges (e.g., patent infringement lawsuits).
• FDA correspondence (or other appropriate regulatory agencies) regarding the safety and efficacy of the product.
• Current market factors, including the competitive landscape and pricing.

If capitalization is deemed appropriate, a life sciences entity should continue to monitor the status of the above factors to assess whether capitalization of the product remains appropriate.

In addition, a life sciences company engaging in clinical trials may require manufactured product for patients enrolled in a trial. Such product may only be used to support the ongoing clinical trial and may include raw materials acquired for production. Management should evaluate whether raw materials acquired for production should be accounted for as inventory if they would have an alternative future use, as discussed in Section 3.2.2 (i.e., the raw materials could be used in the production of multiple drugs). The costs of materials acquired for a particular R&D project that have no alternative future uses (e.g., in other R&D projects) and, therefore, no separate economic value are R&D costs at the time the costs are incurred. Further, the costs of raw materials consumed in R&D activities are R&D costs.

### 3.2.3.1 SEC Comment Letter Themes Related to Capitalization of Prelaunch Inventory

<table>
<thead>
<tr>
<th>Example of an SEC Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>You disclose that inventory costs incurred prior to receipt of regulatory approval are charged to research and development costs when incurred. You also disclose . . . that inventories on your period end balance sheets are comprised primarily of raw materials purchased subsequent to FDA approval of [Product A]. Please tell us the following:</td>
</tr>
<tr>
<td>• The dollar value of pre-approval inventory costs charged to research and development costs and the calendar years in which those costs were expensed.</td>
</tr>
<tr>
<td>• An estimate of what cost of sales as a percentage of product revenue, net would have been for each quarter from the third quarter of [fiscal year 1] through the third quarter of [fiscal year 2] if you had not charged pre-approval inventory costs to research and development expenses.</td>
</tr>
<tr>
<td>• The estimated amount of future product revenue, net from sales of the zero-cost/low-cost inventory (i.e. inventory that excludes costs charged to expense prior to regulatory approval) on hand at September 30, [201X] and the expected period of time over which it will be sold.</td>
</tr>
</tbody>
</table>
It is important for life sciences companies to provide robust disclosures about capitalizing prelaunch inventory since the SEC staff has historically focused on the capitalization of prelaunch inventory that has not been approved by the FDA. Specifically, the staff has asked registrants to quantify the total amount of capitalized unapproved inventory and clarify their accounting policy for the capitalization of unapproved products. In addition, the staff may ask a registrant to indicate (1) when during the FDA approval process it was concluded that a probable future benefit exists and (2) the status of the FDA’s consideration of the safety and efficacy of the product and evaluation of the manufacturing process at that point. Further, a registrant may be asked to explain how its costs qualify as inventory under ASC 330-10-20 and as an asset under paragraph 26 of Concepts Statement 6.

The SEC staff may also request the following additional information or disclosures:

- A description of the overall FDA approval process, including current status, estimated timing of approval, and related risks affecting the approval outcome.
- The remaining shelf life of each capitalized product and why the registrant believes that it will realize the asset’s economic benefit before the expiration of the shelf life.
- The risks and uncertainties associated with market acceptance of the product, once approved, and how these risks and uncertainties will affect the realization of the asset.

3.2.4 Nonrefundable Advance Payments

Life sciences entities often prepay for goods or services that will be used in future R&D activities. Payments are often required by CROs in advance of performing clinical trial management services, or by third-party manufacturers to secure manufacturing capacity for the production of a company’s pharmaceutical products. Often, these payments are nonrefundable so that the life sciences entity will not be reimbursed if the CRO’s or manufacturer’s services are unnecessary.

ASC 730-20 provides guidance on nonrefundable advance payments for goods or services that have the characteristics that will be used or rendered for future R&D activities under an executory contractual arrangement. Specifically, ASC 730-20 notes that nonrefundable advance payments for future R&D activities should be (1) deferred and capitalized and (2) subsequently recognized as an expense as the related goods are delivered or the related services are performed.

Further, ASC 730-20 requires an entity to (1) continue to evaluate whether it expects the goods to be delivered or services to be rendered and (2) charge to expense any portion of the advance payment that has been capitalized when the entity no longer expects the goods to be delivered or services to be rendered. For example, when a company makes a nonrefundable advance payment to a CRO for the performance of certain R&D services and subsequently decides to abandon the pursuit, management would need to evaluate whether the company will continue to receive R&D services from the CRO and whether the related service period over which the capitalized asset is being amortized remains appropriate. If the CRO will not perform future services, any remaining asset should be expensed. Entities should also note that nonrefundable advance payments for future R&D activities related to materials, equipment, facilities, and purchased intangible assets that have an alternative future use (in R&D projects or otherwise) should be recognized in accordance with the guidance in ASC 730-10.
Connecting the Dots
In addition to evaluating the recoverability of any nonrefundable advance payments made to CROs, a life sciences company may need to consider certain external costs incurred after deciding to abandon a clinical trial. For example, the company may owe a CRO additional costs for wind-down activities, termination penalties, and investigator payments. Under ASC 420, for a contract within the scope of that guidance, an entity is required to recognize and measure at fair value a liability for the costs of terminating the contract before the end of the contract term when the entity terminates the contract in accordance with the contract’s provisions (e.g., when the entity gives written notice to the CRO within the notification period specified in the contract or has otherwise negotiated a termination with the CRO).

3.2.5 Refundable Tax Credits for Qualifying R&D Expenditures
To promote innovation and spending in their tax jurisdictions, governments frequently provide tax credits to entities with qualifying R&D expenditures. Sometimes these credits ultimately depend on taxable income, in which case the credits are generally recognized as a reduction of income tax regardless of whether they are accounted for under the flow-through method or the deferral method (as described in ASC 740-10-25-45 and 25-46). However, certain tax jurisdictions provide refundable credits for qualifying R&D that do not depend on the entity's ongoing tax status or tax position (e.g., an entity may receive a refund despite being in a taxable loss position). Refer to Chapter 8 for additional guidance on when refundable tax credits are within the scope of ASC 740 and accordingly classified within income tax expense (benefit) in the financial statements.

3.2.6 FDA Priority Review Vouchers
Section 524 of the Federal Food, Drug, and Cosmetic Act authorizes the FDA to award priority review vouchers (PRVs) to drug applications for the treatment or prevention of certain tropical1 or rare pediatric2 diseases. Once the sponsor obtains a PRV, there is no timeline for use or expiration of the award. While PRVs provide for an expedited review period, they do not guarantee product approval. When initiating the FDA review process, holders of these vouchers can submit them along with their product applications and thereby qualify for a 6-month FDA review period, as opposed to the standard 10-month process. However, companies that plan to use PRVs are required to provide notice to the FDA at least 90 days before they intend to submit their applications and must include in the notice the date by which they expect to deliver their formal applications. Both the tropical and rare pediatric disease PRVs can be transferred (e.g., sold) between companies an unlimited number of times before the FDA review process begins. In recent years, PRV exchanges between companies have ranged in value, with some PRVs commanding prices as high as $350 million.

Questions often arise about whether the amounts paid for these vouchers should be capitalized as an asset or expensed as R&D when such costs are incurred. In determining the appropriate accounting for a PRV, a preparer should consider how the voucher is expected to be used. For example, if a company acquires a PRV specifically to “fast track” the FDA’s review of an existing product in the company’s pipeline, the voucher may not have an alternative future use (e.g., it may be unlikely that the voucher will be sold to another entity). In contrast, if the voucher is acquired with the intent to resell, it may have an alternative future use that could result in probable future economic benefit (i.e., meet the definition of an asset). Companies should carefully consider management’s intent and whether an alternative future use exists when determining how to account for the acquisition of PRVs.

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1 As defined in Sections 524(a)(3) and (a)(4) of the Federal Food, Drug, and Cosmetic Act.
2 As defined in Section 529(a)(3) of the Federal Food, Drug, and Cosmetic Act.
Similarly, life sciences companies will need to consider how to account for the sale of PRVs. Specifically, a life sciences company that sells PRVs will have to assess whether the PRVs are outputs of the company's ordinary activities to determine whether to account for the sale under ASC 606 or under ASC 610-20. We recommend that life sciences companies work with their accounting advisers and external auditors on the appropriate approach and accounting treatment for this type of transaction.
Appendix B — Titles of Standards and Other Literature

The following are the titles of standards and other literature mentioned in this Guide:

**AICPA Literature**

**Accounting and Valuation Guides**
*Assets Acquired to Be Used in Research and Development Activities*
*Valuation of Privately-Held-Company Equity Securities Issued as Compensation*

**Audit and Accounting Guide**
*Revenue Recognition*

**Issues Papers**
*Identification and Discussion of Certain Financial Accounting and Reporting Issues Concerning LIFO Inventories 86-2, Accounting for Options*

**Other**
*AICPA Technical Q&A Section 2260.03, “Other Assets; Legal Expenses Incurred to Defend Patent Infringement Suit”*

**FASB Literature**

**ASC Topics**
*ASC 205, Presentation of Financial Statements*
*ASC 210, Balance Sheet*
*ASC 220, Income Statement — Reporting Comprehensive Income*
*ASC 230, Statement of Cash Flows*
*ASC 235, Notes to Financial Statements*
*ASC 250, Accounting Changes and Error Corrections*
*ASC 260, Earnings per Share*
*ASC 270, Interim Reporting*
*ASC 275, Risks and Uncertainties*
*ASC 280, Segment Reporting*
ASC 310, Receivables
ASC 320, Investments — Debt and Equity Securities
ASC 321, Investments — Equity Securities
ASC 323, Investments — Equity Method and Joint Ventures
ASC 326, Financial Instruments — Credit Losses
ASC 330, Inventory
ASC 340, Other Assets and Deferred Costs
ASC 350, Intangibles — Goodwill and Other
ASC 360, Property, Plant, and Equipment
ASC 405, Liabilities
ASC 410, Asset Retirement and Environmental Obligations
ASC 420, Exit or Disposal Cost Obligations
ASC 450, Contingencies
ASC 460, Guarantees
ASC 470, Debt
ASC 480, Distinguishing Liabilities From Equity
ASC 505, Equity
ASC 605, Revenue Recognition
ASC 606, Revenue From Contracts With Customers
ASC 610, Other Income
ASC 705, Cost of Sales and Services
ASC 710, Compensation — General
ASC 712, Compensation — Nonretirement Postemployment Benefits
ASC 715, Compensation — Retirement Benefits
ASC 718, Compensation — Stock Compensation
ASC 720, Other Expenses
ASC 730, Research and Development
ASC 740, Income Taxes
ASC 805, Business Combinations
ASC 808, Collaborative Arrangements
ASC 810, Consolidation
ASC 815, Derivatives and Hedging
ASC 835, Financial Instruments
Appendix B — Titles of Standards and Other Literature

ASC 840, Leases
ASC 842, Leases
ASC 845, Nonmonetary Transactions
ASC 860, Transfers and Servicing
ASC 915, Development Stage Entities
ASC 930, Extractive Activities — Mining
ASC 942, Financial Services — Depository and Lending
ASC 944, Financial Services — Insurance
ASC 946, Financial Services — Investment Companies
ASC 948, Financial Services — Mortgage Banking
ASC 954, Health Care Entities
ASC 958, Not-for-Profit Entities
ASC 960, Plan Accounting — Defined Benefit Pension Plans
ASC 985, Software

ASUs
ASU 2010-27, Other Expenses (Topic 720): Fees Paid to the Federal Government by Pharmaceutical Manufacturers — a consensus of the FASB Emerging Issues Task Force
ASU 2011-06, Other Expenses (Topic 720): Fees Paid to the Federal Government by Health Insurers — a consensus of the FASB Emerging Issues Task Force
ASU 2014-02, Intangibles — Goodwill and Other (Topic 350): Accounting for Goodwill — a consensus of the Private Company Council
ASU 2014-09, Revenue From Contracts With Customers (Topic 606)
ASU 2014-10, Development Stage Entities (Topic 915): Elimination of Certain Financial Reporting Requirements, Including an Amendment to Variable Interest Entities Guidance in Topic 810, Consolidation
ASU 2014-15, Presentation of Financial Statements — Going Concern (Subtopic 205-40): Disclosure of Uncertainties About an Entity’s Ability to Continue as a Going Concern
ASU 2014-16, Derivatives and Hedging (Topic 815): Determining Whether the Host Contract in a Hybrid Financial Instrument Issued in the Form of a Share Is More Akin to Debt or to Equity — a consensus of the FASB Emerging Issues Task Force
ASU 2015-14, Revenue From Contracts With Customers (Topic 606): Deferral of the Effective Date
ASU 2015-16, Business Combinations (Topic 805): Simplifying the Accounting for Measurement-Period Adjustments
ASU 2016-02, Leases (Topic 842)
ASU 2016-08, Revenue From Contracts With Customers (Topic 606): Principal Versus Agent Considerations (Reporting Revenue Gross Versus Net)

ASU 2016-09, Compensation — Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting

ASU 2016-10, Revenue From Contracts With Customers (Topic 606): Identifying Performance Obligations and Licensing

ASU 2016-11, Revenue Recognition (Topic 605) and Derivatives and Hedging (Topic 815): Rescission of SEC Guidance Because of Accounting Standards Updates 2014-09 and 2014-16 Pursuant to Staff Announcements at the March 3, 2016 EITF Meeting

ASU 2016-12, Revenue From Contracts With Customers (Topic 606): Narrow-Scope Improvements and Practical Expedients

ASU 2016-13, Financial Instruments — Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments


ASU 2016-16, Income Taxes (Topic 740): Intra-Entity Transfers of Assets Other Than Inventory

ASU 2016-17, Consolidation (Topic 810): Interests Held Through Related Parties That Are Under Common Control


ASU 2016-20, Technical Corrections and Improvements to Topic 606, Revenue From Contracts With Customers

ASU 2017-01, Business Combinations (Topic 805): Clarifying the Definition of a Business

ASU 2017-04, Intangibles — Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment

ASU 2017-05, Other Income — Gains and Losses From the Derecognition of Nonfinancial Assets (Subtopic 610-20): Clarifying the Scope of Asset Derecognition Guidance and Accounting for Partial Sales of Nonfinancial Assets

ASU 2017-11, Earnings per Share (Topic 260); Distinguishing Liabilities From Equity (Topic 480); Derivatives and Hedging (Topic 815): (Part I) Accounting for Certain Financial Instruments With Down Round Features, (Part II) Replacement of the Indefinite Deferral for Mandatorily Redeemable Financial Instruments of Certain Nonpublic Entities and Certain Mandatorily Redeemable Noncontrolling Interests With a Scope Exception

ASU 2017-12, Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities

ASU 2017-13, Revenue Recognition (Topic 605), Revenue From Contracts With Customers (Topic 606), Leases (Topic 840), and Leases (Topic 842): Amendments to SEC Paragraphs Pursuant to the Staff Announcement at the July 20, 2017 EITF Meeting and Rescission of Prior SEC Staff Announcements and Observer Comments (SEC Update)

ASU 2017-14, Income Statement — Reporting Comprehensive Income (Topic 220), Revenue Recognition (Topic 605), and Revenue From Contracts With Customers (Topic 606) (SEC Update)

ASU 2018-01, Leases (Topic 842): Land Easement Practical Expedient for Transition to Topic 842

ASU 2018-07, *Compensation — Stock Compensation (Topic 718): Improvements to Nonemployee Share-Based Payment Accounting*

ASU 2018-08, *Not-For-Profit Entities (Topic 958): Clarifying the Scope and the Accounting Guidance for Contributions Received and Contributions Made*

ASU 2018-10, *Codification Improvements to Topic 842, Leases*

ASU 2018-11, *Leases (Topic 842): Targeted Improvements*


ASU 2018-17, *Consolidation (Topic 810): Targeted Improvements to Related Party Guidance for Variable Interest Entities*

ASU 2018-18, *Collaborative Arrangements (Topic 808): Clarifying the Interaction Between Topic 808 and Topic 606*

ASU 2018-20, *Leases (Topic 842): Narrow-Scope Improvements for Lessors*

ASU 2019-01, *Leases (Topic 842): Codification Improvements*

ASU 2019-04, *Codification Improvements to Topic 326, Financial Instruments — Credit Losses, Topic 815, Derivatives and Hedging, and Topic 825, Financial Instruments*

ASU 2019-05, *Financial Instruments — Credit Losses (Topic 326): Targeted Transition Relief*

ASU 2019-08, *Compensation — Stock Compensation (Topic 718) and Revenue From Contracts With Customers (Topic 606): Codification Improvements — Share-Based Consideration Payable to a Customer*

ASU 2019-10, *Financial Instruments — Credit Losses (Topic 326), Derivatives and Hedging (Topic 815), and Leases (Topic 842): Effective Dates*

ASU 2019-11, *Codification Improvements to Topic 326, Financial Instruments — Credit Losses*

ASU 2019-12, *Income Taxes (Topic 740): Simplifying the Accounting for Income Taxes*

ASU 2020-01, *Investments — Equity Securities (Topic 321), Investments — Equity Method and Joint Ventures (Topic 323), and Derivatives and Hedging (Topic 815): Clarifying the Interactions Between Topic 321, Topic 323, and Topic 815 — a consensus of the FASB Emerging Issues Task Force*

**Concepts Statements**

No. 5, *Recognition and Measurement in Financial Statements of Business Enterprises*

No. 6, *Elements of Financial Statements*

No. 8, *Conceptual Framework for Financial Reporting — Chapter 8, Notes to Financial Statements*
Proposed ASUs
No. 2015-310, Notes to Financial Statements (Topic 235): Assessing Whether Disclosures Are Material
No. 2015-340, Government Assistance (Topic 832): Disclosures by Business Entities About Government Assistance
No. 2017-200, Debt (Topic 470): Simplifying the Classification of Debt in a Classified Balance Sheet (Current Versus Noncurrent)
No. 2017-210, Inventory (Topic 330): Disclosure Framework — Changes to the Disclosure Requirements for Inventory
No. 2017-280, Consolidation (Topic 812): Reorganization
No. 2019-730, Debt — Debt With Conversion and Other Options (Subtopic 470-20) and Derivatives and Hedging — Contracts in Entity's Own Equity (Subtopic 815-40): Accounting for Convertible Instruments and Contracts in an Entity's Own Equity
No. 2019-770, Reference Rate Reform (Topic 848): Facilitation of the Effects of Reference Rate Reform on Financial Reporting
No. 2019-790, Derivatives and Hedging (Topic 815): Codification Improvements to Hedge Accounting

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IFRS 3, Business Combinations
IFRS 5, Non-Current Assets Held for Sale and Discontinued Operations
IFRS 9, Financial Statements
IFRS 10, Consolidated Financial Statements
IFRS 11, Joint Arrangements
IFRS 12, Disclosure of Interests in Other Entities
IFRS 15, Revenue From Contracts With Customers
IFRS 16, Leases
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IAS 7, Statement of Cash Flows
IAS 10, Events After the Reporting Period
IAS 12, Income Taxes
IAS 17, Leases
IAS 20, Accounting for Government Grants and Disclosure of Government Assistance
IAS 27 (Revised 2011), Separate Financial Statements
IAS 32, Financial Instruments: Presentation
IAS 37, Provisions, Contingent Liabilities and Contingent Assets
IAS 38, Intangible Assets
IAS 40, Investment Property

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Section 199, “Income Attributable to Domestic Production Activities”
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Section 383, “Special Limitations on Certain Excess Credits, etc.”
Section 409A “Inclusion in Gross Income of Deferred Compensation Under Nonqualified Deferred Compensation Plans”
Section 422, “Incentive Stock Options”
Section 423, “Employee Stock Purchase Plans”

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**SEC Literature**

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Topic 2, “Other Financial Statements Required”
Topic 3, “Pro Forma Financial Information”
Topic 5, “Smaller Reporting Companies”
Topic 7, “Related Party Matters”
Topic 9, “Management’s Discussion and Analysis of Financial Position and Results of Operations (MD&A)”
Topic 10, “Emerging Growth Companies”

**Interpretive Release**
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Proposed Rule Release

No. 33-10635, Amendments to Financial Disclosures About Acquired and Disposed Businesses

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Item 103, “Business; Legal Proceedings”
Item 201, “Market Price of and Dividends on the Registrant's Common Equity and Related Stockholder Matters”
Item 301, “Selected Financial Data”
Item 302, “Supplementary Financial Information”
Item 303, “Management's Discussion and Analysis of Financial Condition and Results of Operations”
Item 305, “Quantitative and Qualitative Disclosures About Market Risk”
Item 402, “Executive Compensation”
Item 404, “Transactions With Related Persons, Promoters and Certain Control Persons”
Item 407, “Corporate Governance”
Item 503, “Prospectus Summary”
Item 601, “Exhibits”

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Article 2, “Qualifications and Reports of Accountants”
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Rule 3-14, “Special Instructions for Real Estate Operations to Be Acquired”
Rule 3-16, “Financial Statements of Affiliates Whose Securities Collateralize an Issue Registered or Being Registered”
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Rule 4-08(h), “General Notes to Financial Statements: Income Tax Expense”
Rule 4-08(n), “Accounting Policies for Certain Derivative Instruments”
Article 8, “Financial Statements of Smaller Reporting Companies”
Rule 10-01(b), “Interim Financial Statements: Other Instructions as to Content”
Article 11, “Pro Forma Financial Information”
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**SAB Topics**
No. 1.M, “Financial Statements; Materiality”
No. 5.A, “Expenses of Offering”
No. 5.Y, “Miscellaneous Accounting; Accounting and Disclosures Relating to Loss Contingencies”
No 11.A, “Miscellaneous Disclosure; Operating-Differential Subsidies”
No. 13, “Revenue Recognition”
No. 14.B, “Share-Based Payment; Transition From Nonpublic to Public Entity Status”
No. 14.D.1, “Certain Assumptions Used in Valuation Methods; Expected Volatility”
SAB 116, “Staff Accounting Bulletin No. 116”

**SEC Securities Act of 1933 General Rules and Regulations**
Rule 144, “Persons Deemed Not to be Engaged in a Distribution and Therefore Not Underwriters — General Guidance”

**Superseded Literature**

**EITF Issues**
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Issue 01-10, “Accounting for the Impact of the Terrorist Attacks of September 11, 2001”
Issue 02-16, “Accounting by a Customer (Including a Reseller) for Certain Consideration Received From a Vendor”
Issue 01-8, “Determining Whether an Arrangement Contains a Lease”
Issue 08-6, “Equity Method Investment Accounting Considerations”
Issue 09-2, “Research and Development Assets Acquired in an Asset Acquisition”
Issue 09-4, “Seller Accounting for Contingent Consideration”

**FASB Interpretations**
No. 47, *Accounting for Conditional Asset Retirement Obligations* — an interpretation of FASB Statement No. 143
No. 48, *Accounting for Uncertainty in Income Taxes* — an interpretation of FASB Statement No. 109
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No. 5, *Accounting for Contingencies*

No. 95, *Statement of Cash Flows*

No. 114, *Accounting by Creditors for Impairment of a Loan* — an amendment of FASB Statements No. 5 and 15

No. 123(R), *Share-Based Payment*

No. 133, *Accounting for Derivative Instruments and Hedging Activities*

No. 141, *Business Combinations*

No. 141(R), *Business Combinations*

No. 160, *Noncontrolling Interests in Consolidated Financial Statements* — an amendment of ARB No. 51
## Appendix C — Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABO</td>
<td>accumulated benefit obligation</td>
</tr>
<tr>
<td>AFS</td>
<td>available for sale</td>
</tr>
<tr>
<td>AI</td>
<td>artificial intelligence</td>
</tr>
<tr>
<td>AICPA</td>
<td>American Institute of Certified Public Accountants</td>
</tr>
<tr>
<td>AMT</td>
<td>alternative minimum tax</td>
</tr>
<tr>
<td>API</td>
<td>active pharmaceutical ingredient</td>
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<tr>
<td>APIC</td>
<td>additional paid-in capital</td>
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<td>ASC</td>
<td>FASB Accounting Standards Codification</td>
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<tr>
<td>ASR</td>
<td>accelerated share repurchase</td>
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<tr>
<td>ASU</td>
<td>FASB Accounting Standards Update</td>
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<tr>
<td>BCF</td>
<td>beneficial conversion feature</td>
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<tr>
<td>BEAT</td>
<td>base erosion anti-abuse tax</td>
</tr>
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<td>BEMTA</td>
<td>base erosion minimum tax amount</td>
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<td>BPD</td>
<td>branded prescription drug</td>
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<tr>
<td>CAGR</td>
<td>compound annual growth rate</td>
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<tr>
<td>CAM</td>
<td>critical audit matter</td>
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<tr>
<td>CCF</td>
<td>cash conversion feature</td>
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<td>CECL</td>
<td>current expected credit loss</td>
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<td>CFC</td>
<td>controlled foreign corporation</td>
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<td>CFR</td>
<td>Code of Federal Regulations</td>
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<tr>
<td>CMO</td>
<td>contract manufacturing organization</td>
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<tr>
<td>CODM</td>
<td>chief operating decision maker</td>
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<td>CRO</td>
<td>contract research organization</td>
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<td>CSR</td>
<td>corporate social responsibility</td>
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<tr>
<td>DTA</td>
<td>deferred tax asset</td>
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<tr>
<td>DTL</td>
<td>deferred tax liability</td>
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<tr>
<td>EBITDA</td>
<td>earnings before interest, taxes, depreciation, and amortization</td>
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<tr>
<td>ED</td>
<td>exposure draft</td>
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<tr>
<td>EDGAR</td>
<td>SEC electronic data gathering, analysis, and retrieval system</td>
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<td>EGC</td>
<td>emerging growth company</td>
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<td>EITF</td>
<td>Emerging Issues Task Force</td>
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<td>ESPP</td>
<td>employee stock purchase plan</td>
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<td>EU</td>
<td>European Union</td>
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<td>FASB</td>
<td>Financial Accounting Standards Board</td>
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<td>FDA</td>
<td>Food and Drug Administration</td>
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<tr>
<td>FDII</td>
<td>foreign derived intangible income</td>
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<tr>
<td>FIFO</td>
<td>first in, first out</td>
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<tr>
<td>FIN</td>
<td>FASB Interpretation</td>
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<td>FOB</td>
<td>free on board</td>
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<td>FRM</td>
<td>SEC Division of Corporation Finance Financial Reporting Manual</td>
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<tr>
<td>FVTOCI</td>
<td>fair value through other comprehensive income</td>
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<td>GAAP</td>
<td>generally accepted accounting principles</td>
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<tr>
<td>GILTI</td>
<td>global intangible low-taxed income</td>
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<td>GPO</td>
<td>group purchasing organization</td>
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<tr>
<td>HFI</td>
<td>held for investment</td>
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<tr>
<td>HFS</td>
<td>held for sale</td>
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<tr>
<td>IAS</td>
<td>International Accounting Standard</td>
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<td>IASB</td>
<td>International Accounting Standards Board</td>
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<tr>
<td>Abbreviation</td>
<td>Description</td>
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<tr>
<td>IFRIC</td>
<td>IFRS Interpretations Committee</td>
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<tr>
<td>IFRS</td>
<td>International Financial Reporting Standard</td>
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<tr>
<td>IIR</td>
<td>investigator-initiated research</td>
</tr>
<tr>
<td>IP</td>
<td>intellectual property</td>
</tr>
<tr>
<td>IPO</td>
<td>initial public offering</td>
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<tr>
<td>IPR&amp;D</td>
<td>in-process research and development</td>
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<tr>
<td>IRC</td>
<td>Internal Revenue Code</td>
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<td>IRS</td>
<td>Internal Revenue Service</td>
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<td>ISO</td>
<td>incentive stock option</td>
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<tr>
<td>IT</td>
<td>information technology</td>
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<td>LCD</td>
<td>liquid-crystal display</td>
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<td>LIBOR</td>
<td>London Interbank Offered Rate</td>
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<tr>
<td>LIFO</td>
<td>last in, first out</td>
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<tr>
<td>LLC</td>
<td>limited liability company</td>
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<tr>
<td>M&amp;A</td>
<td>merger and acquisition</td>
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<td>MD&amp;A</td>
<td>Management's Discussion &amp; Analysis</td>
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<td>MSL</td>
<td>medical science liaison</td>
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<tr>
<td>NFP</td>
<td>not-for-profit entity</td>
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<td>NOL</td>
<td>net operating loss</td>
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<td>NQSO</td>
<td>non-qualified stock option</td>
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<tr>
<td>NSO</td>
<td>nonstatutory option</td>
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<tr>
<td>OCI</td>
<td>other comprehensive income</td>
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<tr>
<td>OECD</td>
<td>Organisation for Economic Co-operation and Development</td>
</tr>
<tr>
<td>OEM</td>
<td>original equipment manufacturer</td>
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<tr>
<td>PBE</td>
<td>public business entity</td>
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The following is a list of short references for the Acts mentioned in this Guide:

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<td>Securities Act of 1933</td>
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