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**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**Form 10-K**

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

For the fiscal year ended September 30, 2013

or

- ☐ **TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the transition period from

to

Commission file number 1-5667

**Cabot Corporation**

(Exact name of Registrant as specified in its charter)

**Delaware**

(State or other jurisdiction of  
incorporation or organization)

**04-2271897**

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

**Two Seaport Lane, Suite 1300**

**Boston, Massachusetts**

(Address of Principal Executive Offices)

**02210**

(Zip Code)

**(617) 345-0100**

(Registrant's telephone number, including area code)

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

**Title of Each Class**

**Name of Each Exchange on Which Registered**

Common stock, \$1.00 par value per share

New York Stock Exchange

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities

Act. Yes ☒ No ☐

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

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

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ No ☐

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of the Registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. ☒

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

Large accelerated filer ☒

Accelerated filer ☐

Non-accelerated filer ☐ (Do not check if a smaller reporting company) Smaller reporting company ☐

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

As of the last business day of the Registrant's most recently completed second fiscal quarter (March 31, 2013), the aggregate market value of the Registrant's common stock held by non-affiliates was \$2,161,966,304. As of November 19, 2013, there were 64,093,193 shares of the Registrant's common stock outstanding.

**DOCUMENTS INCORPORATED BY REFERENCE**

Portions of the Registrant's definitive proxy statement for its 2014 Annual Meeting of Shareholders are incorporated by reference into Part III of this annual report on Form 10-K.

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### Information Relating to Forward-Looking Statements

This annual report on Form 10-K contains “forward-looking statements” under the Federal securities laws. These forward-looking statements include statements relating to our future business performance and overall prospects; demand for our products; our expectations regarding the availability of raw materials for our Specialty Fluids Business and the life of our pollucite ore reserves; our expectations concerning the receipt of the cash proceeds due to us from the sale of our Supermetals Business; the sufficiency of our cash on hand, cash provided from operations and cash available under our credit and commercial paper facilities to fund our cash requirements; anticipated capital spending, including environmental-related capital expenditures; cash requirements and uses of available cash, including future cash outlays associated with long-term contractual obligations, restructurings, contributions to employee benefit plans, environmental remediation costs and future respirator liabilities; development plans for our cesium and lignite mining operations; exposure to interest rate and foreign exchange risk; future benefit plan payments we expect to make; our expected tax rate for fiscal 2014; our ability to recover deferred tax assets; and the possible outcome of legal and environmental proceedings. From time to time, we also provide forward-looking statements in other materials we release to the public and in oral statements made by authorized officers.

Forward-looking statements are based on our current expectations, assumptions, estimates and projections about Cabot’s businesses and strategies, market trends and conditions, economic conditions and other factors. These statements are not guarantees of future performance and are subject to risks, uncertainties, potentially inaccurate assumptions, and other factors, some of which are beyond our control and difficult to predict. If known or unknown risks materialize, or should underlying assumptions prove inaccurate, our actual results could differ materially from past results and from those expressed in the forward-looking statements. Important factors that could cause our actual results to differ materially from those expressed in our forward-looking statements are described in Item 1A in this report.

We undertake no obligation to publicly update forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law. Investors are advised, however, to consult any further disclosures we make on related subjects in our 10-Q and 8-K reports filed with the Securities and Exchange Commission (the “SEC”).

## PART I

### Item 1. *Business*

#### General

Cabot is a global specialty chemicals and performance materials company headquartered in Boston, Massachusetts. Our principal products are rubber and specialty grade carbon blacks, fumed metal oxides, inkjet colorants, aerogel, cesium formate drilling fluids and activated carbon. Cabot and its affiliates have manufacturing facilities and operations in the United States and over 20 other countries. Cabot’s business was founded in 1882 and incorporated in the State of Delaware in 1960. The terms “Cabot”, “Company”, “we”, and “our” as used in this report refer to Cabot Corporation and its consolidated subsidiaries.

Our strategy is to deliver earnings growth through leadership in performance materials. We intend to achieve this goal by focusing on margin improvement, capacity expansion and emerging market growth, developing new products and businesses and actively managing our portfolio of businesses. In support of this strategy, during fiscal 2012 we completed the sale of our Supermetals Business to Global Advanced Metals Pty Ltd. and we completed our acquisition of all of the issued and outstanding shares of Norit N.V., the business of which we renamed and report as Purification Solutions. In addition, in fiscal 2013 we announced our plans to acquire the remaining 60% of the common stock of Nhumo, S.A.P.I. de C.V. (“NHUMO”), our carbon black manufacturing joint venture in Altamira, Mexico. We completed this acquisition on November 15, 2013.

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Our products are generally based on technical expertise and innovation in one or more of our three core competencies: making and handling very fine particles; modifying the surfaces of very fine particles to alter their functionality; and designing particles to impart specific properties to a composite. We focus on creating particles with the composition, morphology, surface functionalities and formulations to support our customers' existing and emerging applications.

We are organized into four business segments: Reinforcement Materials; Performance Materials; Advanced Technologies; and Purification Solutions. The business segments are discussed in more detail later in this section. Financial information about our business segments appears in Management's Discussion and Analysis of Financial Condition and Results of Operations in Item 7 below ("MD&A") and in Note T of the Notes to our Consolidated Financial Statements in Item 8 below ("Note T").

For operational purposes, we are also organized into three geographic regions: The Americas; Europe, Middle East and Africa; and Asia Pacific. Financial information about our sales and long-lived assets in certain geographic areas appears in Note T.

Our internet address is [www.cabot-corp.com](http://www.cabot-corp.com). We make available free of charge on or through our internet website our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 as soon as reasonably practicable after electronically filing such material with, or furnishing it to, the SEC.

## **Reinforcement Materials**

### ***Products***

Carbon black is a form of elemental carbon that is manufactured in a highly controlled process to produce particles and aggregates of varied structure and surface chemistry, resulting in many different performance characteristics for a wide variety of applications. Rubber grade carbon blacks are used to enhance the physical properties of the systems and applications in which they are incorporated.

Our rubber blacks products are used in tires and industrial products. Rubber blacks have traditionally been used in the tire industry as a rubber reinforcing agent and are also used as a performance additive. In industrial products such as hoses, belts, extruded profiles and molded goods, rubber blacks are used to improve the physical performance of the product.

### ***Sales and Customers***

Sales of rubber blacks products are made by Cabot employees and through distributors and sales representatives. Sales to three major tire customers represent a material portion of Reinforcement Materials' total net sales and operating revenues. The loss of any of these customers could have a material adverse effect on the Segment.

Under appropriate circumstances, we have entered into supply contracts with certain customers, many of which have durations of at least one year. Many of these contracts provide for sales price adjustments to account for changes in relevant feedstock indices and, in some cases, changes in other relevant costs (such as the cost of natural gas). In fiscal 2013, approximately half of our rubber blacks volume was sold under supply agreements with an initial term of at least one year. The majority of the volumes sold under these agreements are sold to customers in North America and Western Europe.

Much of the rubber blacks we sell is used in automotive products and, therefore, our financial results may be affected by the cyclical nature of the automotive industry. However, a large portion of the market for our products is in replacement tires that historically have been less subject to automotive industry cycles.

### **Competition**

We are one of the leading manufacturers of carbon black in the world. We compete in the manufacture of carbon black primarily with two companies with a global presence and several other companies that have a regional presence, some of which export product outside their region. Competition for products within Reinforcement Materials is based on product performance, quality, reliability, service, technical innovation, price, and logistics. We believe our product differentiation, technological leadership, global manufacturing presence, operations and logistics excellence and customer service provide us with a competitive advantage.

### **Raw Materials**

The principal raw material used in the manufacture of carbon black is a portion of the residual heavy oils derived from petroleum refining operations and from the distillation of coal tars and the production of ethylene throughout the world. Natural gas is also used in the production of carbon black. Raw material costs generally are influenced by the availability of various types of carbon black feedstock and natural gas, and related transportation costs. Importantly, movements in the market price for crude oil typically affect carbon black feedstock costs.

### **Operations**

We own, or have a controlling interest in, and operate plants that produce rubber blacks in Argentina, Brazil, Canada, China, Colombia, the Czech Republic, France, Indonesia, Italy, Japan, Mexico (as of November 15, 2013), The Netherlands and the United States. Our equity affiliate operates a carbon black plant in Venezuela.

The following table shows our ownership interest as of September 30, 2013 in rubber blacks operations in which we own less than 100%:

<b>Location</b>	<b>Percentage Interest</b>
Shanghai, China	70% (consolidated subsidiary)
Tianjin, China	70% (consolidated subsidiary)
Xingtai City, China	60% (consolidated subsidiary)
Valasske Mezirici (Valmez), Czech Republic	52% (consolidated subsidiary)
Cilegon and Merak, Indonesia	85% (consolidated subsidiary)
Altamira, Mexico <sup>(1)</sup>	40% (equity affiliate)
Valencia, Venezuela	49% (equity affiliate)

<sup>(1)</sup> We acquired the remaining 60% of the common stock of this joint venture on November 15, 2013.

We continue to expand the manufacturing capacity of Reinforcement Materials, particularly in emerging markets. We increased the capacity at our carbon black plant in Tianjin, China by 150,000 metric tons with the addition of two rubber blacks production units in fiscal 2009, and in fiscal 2012 increased the capacity at our existing facilities in Indonesia, Argentina and multiple sites in Europe by a total of approximately 50,000 metric tons. During fiscal 2013, we completed construction of a rubber blacks manufacturing facility in Xingtai City, Hebei Province, China with our joint venture partner. The facility, which began operations in fiscal 2014, will produce approximately 130,000 metric tons of carbon black annually, with the potential to expand annual capacity to 300,000 metric tons. Also during fiscal 2013, we entered into an agreement with Grupo Kuo S.A.B. de C.V. to purchase the remaining 60% of the common stock of NHUMO, our carbon black manufacturing joint venture in Altamira, Mexico. The plant has an annual capacity of 140,000 metric tons. We completed the acquisition on November 15, 2013.

We also have the ability to further expand the capacity at certain of our existing plants. The timing for these future expansions is dependent on a number of factors, including overall economic conditions.

Over the course of fiscal 2009 and 2010, we closed our manufacturing operations in Stanlow, U.K., Berre, France and Thane, India. During fiscal 2013, we closed our manufacturing operations at our carbon black joint venture in Port Dickson, Malaysia.

## **Performance Materials**

Performance Materials is comprised of two businesses that sell the following products: specialty grades of carbon black and thermoplastic concentrates and compounds (our Specialty Carbons and Compounds Business); and fumed silica, fumed alumina and dispersions thereof (our Fumed Metal Oxides Business). In each business, we design, manufacture and sell materials that deliver performance in a broad range of customer applications across the automotive, construction and infrastructure, and electronics and consumer products sectors.

### **Products**

Carbon black is a form of elemental carbon that is manufactured in a highly controlled process to produce particles and aggregates of varied structure and surface chemistry, resulting in many different performance characteristics for a wide variety of applications. Our specialty grades of carbon black are used to impart color, provide rheology control, enhance conductivity and static charge control, provide UV protection, enhance mechanical properties, and provide formulation flexibility through surface treatment. These products are used in a wide variety of applications, such as inks, coatings, cables, pipes, toners and electronics. In addition, we manufacture and source thermoplastic concentrates and compounds (which we refer to as “specialty compounds”) that are marketed to the plastics industry.

Fumed silica is an ultra-fine, high-purity particle used as a reinforcing, thickening, abrasive, thixotropic, suspending or anti-caking agent in a wide variety of products for the automotive, construction, microelectronics, and consumer products industries. These products include adhesives, sealants, cosmetics, inks, toners, silicone rubber, coatings, polishing slurries and pharmaceuticals. Fumed alumina, also an ultra-fine, high-purity particle, is used as an abrasive, absorbent or barrier agent in a variety of products, such as inkjet media, lighting, coatings, cosmetics and polishing slurries.

### **Sales and Customers**

Sales of these products are made by Cabot employees and through distributors and sales representatives. In our Specialty Carbons and Compounds Business, sales are to a broad number of customers. Sales under long-term contracts (those with an initial term longer than one year) with two customers account for a substantial portion of the revenue of our Fumed Metal Oxides Business.

### **Competition**

We are one of the leading manufacturers of carbon black in the world. We compete in the manufacture of carbon black primarily with two companies with a global presence and several other companies that have a regional presence, some of which export product outside their region. We are also a leading producer of specialty compounds in Europe, the Middle East and Asia. We are a leading producer and seller of fumed silica and compete primarily with three companies with a global presence and numerous other companies which have a regional presence.

Competition for these products is based on product performance, quality, reliability, service, technical innovation and price. We believe our product differentiation, technological leadership, global manufacturing presence, operations excellence and customer service provide us with a competitive advantage.

### **Raw Materials**

The principal raw material used in the manufacture of carbon black is a portion of the residual heavy oils derived from petroleum refining operations and from the distillation of coal tars and the production of

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ethylene throughout the world. Natural gas is also used in the production of carbon black. Raw material costs generally are influenced by the availability of various types of carbon black feedstock and natural gas, and related transportation costs. Importantly, movements in the market price for crude oil typically affect carbon black feedstock costs.

Other than carbon black feedstock, the primary materials used for our specialty compounds are thermoplastic resins and mineral fillers. Raw materials for these compounds are, in general, readily available.

Raw materials for the production of fumed silica are various chlorosilane feedstocks. We purchase feedstocks and for some customers convert their feedstock to product on a fee-basis (so called "toll conversion"). We also purchase aluminum chloride as feedstock for the production of fumed alumina. We have long-term procurement contracts or arrangements in place for the purchase of fumed silica feedstock, which we believe will enable us to meet our raw material requirements for the foreseeable future. In addition, we buy some raw materials in the spot market to help ensure flexibility and minimize costs.

### **Operations**

We own, or have a controlling interest in, and operate plants that produce specialty grades of carbon black primarily in China, The Netherlands and the United States. Our specialty compounds are produced in facilities that we own, or have a controlling interest in, located in Belgium, China and the United Arab Emirates. We also own, or have a controlling interest in, manufacturing plants that produce fumed metal oxides in the United States, China, the United Kingdom, and Germany. An equity affiliate operates a fumed metal oxides plant in Mettur Dam, India.

The following table shows our ownership interest as of September 30, 2013 in these segment operations in which we own less than 100%:

Location	Percentage Interest
Tianjin, China (Specialty Carbons and Compounds Business)	90% (consolidated subsidiary)
Jiangxi Province, China (Fumed Metal Oxides Business)	90% (consolidated subsidiary)
Mettur Dam, India (Fumed Metal Oxides Business)	50% (equity affiliate)

We continue to expand the manufacturing capacity of our Specialty Carbons and Compounds Business in emerging markets. During fiscal 2010, we commenced specialty compounds manufacturing in Dubai. In addition, in fiscal 2011 we commissioned a specialty compounds manufacturing plant at our carbon black plant in Tianjin, China. This plant has an annual capacity of approximately 45,000 metric tons that may be expanded to 80,000 metric tons in the future.

We also continue to expand our fumed silica capacity. During fiscal 2012, we increased the annual capacity at our joint venture's fumed silica manufacturing facility in Jiangxi Province, China to approximately 15,000 metric tons, with the potential to further expand to 20,000 metric tons as demand in Asia grows. In addition, during fiscal 2013 we expanded production capacity by 25% at our fumed silica facility in Barry, Wales.

Over the course of fiscal 2009, 2010 and 2011, we closed our specialty compounds manufacturing operations in Dukinfield, U.K. and in Grigno, Italy and our carbon black manufacturing operations in Stanlow, U.K. and in Berre, France. In fiscal 2012, we closed our specialty compounds manufacturing facility in Hong Kong and moved production primarily to our facility in Tianjin, China.

### **Advanced Technologies**

Advanced Technologies is comprised of our Inkjet Colorants, Aerogel, Security Materials, Elastomer Composites and Specialty Fluids Businesses. A discussion of each of these Businesses follows.

## **Inkjet Colorants Business**

### ***Products***

We produce and sell aqueous inkjet colorants primarily to the inkjet printing market. Our inkjet colorants are high-quality pigment-based black and color dispersions based on our patented surface modification technology. The dispersions are used in aqueous inkjet inks to impart color (optical density or chroma), sharp print characteristics and durability (waterfastness, lightfastness and rub resistance) while maintaining high printhead reliability. Our inkjet colorants serve various inkjet printing applications, including small office and home office, corporate office, and commercial printing, as well as other niche applications that require a high level of dispersibility and colloidal stability. We also sell inks with our pigment based colorant dispersions into the emerging commercial printing segment for digital print.

### ***Sales and Customers***

Sales of inkjet colorants and inks are made by Cabot employees to inkjet printer manufacturers and to suppliers of inkjet inks in the inkjet cartridge aftermarket. Many of our commercialized products have been developed through joint research and development initiatives with inkjet printer manufacturers and press integrators. These initiatives have led to the development of exclusive differentiated products for these inkjet customers.

### ***Competition***

Our inkjet colorants and inks are designed to replace traditional pigment dispersions and dyes used in inkjet printing applications. Competitive products for inkjet colorants are organic dyes and other dispersed pigments manufactured and marketed by large chemical companies and small independent producers. Competition is based on product performance, technical innovation, quality, reliability, service and price. We believe our commercial strengths include technical innovation, strong customer partnerships, product performance and service.

### ***Raw Materials***

Raw materials for inkjet colorants include carbon black sourced from our carbon black plants, organic pigments and other treating agents available from various sources. Raw materials for inkjet inks include pigment dispersions, solvents and other additives. We believe that all raw materials to produce inkjet colorants and inks are in adequate supply.

### ***Operations***

Our inkjet colorants and inks are manufactured at our facility in Haverhill, Massachusetts. During fiscal 2012, we doubled the capacity of two of our production lines at this facility.

## **Aerogel Business**

### ***Products***

Aerogel is a hydrophobic, silica-based particle with a high surface area that is used in a variety of thermal insulation and specialty chemical applications. In the building and construction industry, the product is used in insulative sprayable plasters and composite building products, as well as translucent skylight, window, wall and roof systems for insulating eco-daylighting applications. In the oil and gas industry, aerogel is used to insulate subsea pipelines. In the specialty chemicals industry, the product is used to provide matte finishing, insulating and thickening properties for use in a variety of applications. These applications include incorporation of aerogel into highly thermal insulative coatings formulations for safe touch and improved energy efficiency. We continue to focus on application and market development activities for use of aerogel in these and other new applications.



### **Sales and Customers**

Sales of aerogel products are made principally by Cabot employees to engineering procurement and installation companies, traditional insulation manufacturers, building and construction materials companies, and specialty chemical and coatings producers and distributors.

### **Competition**

Although the manufacturing processes used are different, in certain insulation applications, our aerogel products compete principally with aerogel products manufactured by Aspen Aerogel, Inc. and non-aerogel insulation products manufactured by primarily regional companies throughout the world.

Competition is based on product performance, price, quality, reliability and service. We believe our commercial strengths include technical innovation, product performance, quality and service.

### **Raw Materials**

The principal raw materials for the production of aerogel are silica sol and/or sodium silicate, which we believe are in adequate supply.

### **Operations**

We manufacture our aerogel products at our facility in Frankfurt, Germany using a unique and patented manufacturing process.

### **Security Materials Business**

The principal area of commercial focus for the Security Materials Business is in developing covert taggants for a broad range of anti-counterfeiting security applications, including brand security, currency, tax stamps, identification and fuel markers. Covert taggants are invisible, unique markers that are added to products to determine their authenticity through the use of custom detectors or readers. Our taggants are manufactured using a proprietary process, which produces highly uniform materials with unique signatures. The principal raw materials for the production of our security taggants are rare earth oxides, which we believe we have in adequate supply.

We conduct development and manufacturing activities for our Security Materials Business primarily at our facility in Albuquerque, New Mexico. During fiscal 2013, we closed our research and development facility in Mountain View, California and moved those operations to our facility in New Mexico.

### **Elastomer Composites Business**

Our elastomer composite products are compounds of natural latex rubber and carbon black made by a patented liquid phase process. These compounds improve abrasion/wear resistance, reduce fatigue and reduce rolling resistance compared to natural rubber/carbon black compounds made by conventional methods. Our elastomer composite products are targeted primarily for tire applications. We manufacture our elastomer composite products at our facility in Port Dickson, Malaysia.

We have licensed our patented elastomer composites manufacturing process to Manufacture Francaise des Pneumatiques Michelin ("Michelin") for their exclusive use in tire applications. In consideration, we are entitled to receive milestone payments upon the achievement of multiple development and technical milestones, as well as quarterly royalty payments. Quarterly royalty payments extend through fiscal 2022 in accordance with a pre-determined schedule linked to Michelin's installed capacity.

## **Specialty Fluids Business**

### ***Products***

Our Specialty Fluids Business principally produces and markets cesium formate as a drilling and completion fluid for use primarily in high pressure and high temperature oil and gas well construction. Cesium formate products are solids-free, high-density fluids that have a low viscosity, enabling safe and efficient well construction and workover operations. The fluid is resistant to high temperatures, minimizes damage to producing reservoirs and is readily biodegradable in accordance with the testing guidelines set by the Organization for Economic Cooperation and Development. In a majority of applications, cesium formate is blended with other formates or products.

### ***Sales, Rental and Customers***

Sales of our cesium formate products are made to oil and gas operating companies directly by Cabot employees and sales representatives and indirectly through oil field service companies. We generally rent cesium formate to our customers for use in drilling operations on a short-term basis and we also make direct sales of cesium formate outside of the rental process. After completion of a job under our rental process, the customer returns the remaining fluid to Cabot and it is reprocessed for use in subsequent well operations. Any fluid that is lost during use and not returned to Cabot is paid for by the customer.

A large portion of our fluids have been used for drilling and completion of wells in the North Sea, where we have been supplying cesium formate-based fluids for both reservoir drilling and completion activities on large gas and condensate field projects in the Norwegian Continental Shelf. Although we have expanded the use of our fluids to drilling operations outside of the North Sea, an important portion of our business continues to be with a limited number of customers for drilling and completion operations in that geography.

### ***Competition***

Formate fluids, which were introduced to the market in the mid-1990s, are a relatively small but growing part of the drilling and completion fluids market and compete mainly with traditional drilling fluid technologies. Competition in the well fluids business is based on product performance, quality, reliability, service, technical innovation, price, and proximity of inventory to customers' drilling operations. We believe our commercial strengths include our unique product offerings and their performance, and our customer service.

### ***Raw Materials***

The principal raw material used in this business is pollucite (cesium ore), the vast majority of which we obtain from our mine in Manitoba, Canada, a portion of which is located under Bernic Lake. We own a substantial portion of the world's known pollucite reserves. There have been recent indications of structural instability in a portion of the mine that contains significant cesium reserves. Accordingly, we are assessing the technical and economic feasibility of development alternatives at the mine that, if pursued, we believe would enable us to continue to access our pollucite reserves and potentially expand our existing mining operations. Assuming we determine that such a project is viable and it is successfully implemented, we expect our supply of cesium products to last approximately 10 years, considering our current production rates, our current estimate of reserve levels in the mine and our inventory on hand. However, the process of estimating mineral reserves is inherently uncertain and requires making subjective engineering, geological, geophysical and economic assumptions. Accordingly, there is likely to be variability in the estimated reserve life of the ore body over time. As we assess our development alternatives, our existing mining operations in other portions of the mine continue, and given the risk of instability in the mine, we are increasing our cesium ore inventory in an effort to ensure that we have sufficient raw material inventory to meet our customer needs for the foreseeable future. The risks and uncertainties associated with this project are described in the Risk Factor discussion in Item 1A below.

Most jobs for which cesium formate is used require a large volume of the product. Accordingly, the Specialty Fluids Business maintains a large inventory of fluid.

### ***Operations***

Our mine and cesium formate manufacturing facility are located in Manitoba, Canada, and we have fluid blending and reclamation facilities in Aberdeen, Scotland and in Bergen and Kristiansund, Norway. In addition, we warehouse fluid at various locations around the world to support existing and potential operations.

## **Purification Solutions**

### ***Products***

Activated carbon is a porous material consisting mainly of elemental carbon treated with heat, steam and/or chemicals to create high internal porosity, resulting in a large internal surface area that resembles a sponge. It is generally produced in two forms, powdered and granular, and is manufactured in different sizes, shapes and levels of purity for a wide variety of applications. Activated carbon is used to remove contaminants from liquids and gases using a process called adsorption, whereby the interconnected pores of activated carbon trap contaminants.

Our activated carbon products are typically used for the purification of water, air, food and beverages, pharmaceuticals and other liquids and gases, as either a colorant or a decolorizing agent in the production of products for food and beverage applications and as a chemical carrier in slow release applications. In gas and air applications, one of the uses of activated carbon is for the removal of mercury in flue gas streams. In certain applications, used activated carbon can be reactivated for further use by removing the contaminants from the pores. The most common applications for our reactivated carbon are water treatment and food and beverage purification. In addition to our activated carbon production and reactivation, we also provide activated carbon solutions through on-site equipment and services, including delivery systems for activated carbon injection in coal-fired utilities, mobile water filter units and carbon reactivation services.

### ***Sales and Customers***

Sales of activated carbon are made by Cabot employees and through distributors and sales representatives to a broad range of customers, including coal-fired utilities, food and beverage processors, water treatment plants, pharmaceutical companies and catalyst producers. Some of our sales of activated carbon are made under annual contracts or longer-term agreements, particularly in mercury removal applications.

### ***Competition***

We are one of the leading manufacturers of activated carbon and providers of activated carbon equipment and services in the world. We compete in the manufacture of activated carbon primarily with six companies with a global presence and numerous other companies with a regional or local presence, although not all of these companies manufacture activated carbon for the range of applications for which we sell our products.

Competition for activated carbon and activated carbon equipment and services is based on quality, performance, price and supply-chain stability. We believe our product and application diversity, product differentiation, technological leadership, quality, cost-effective access to raw materials, and scalable manufacturing capabilities provide us with a competitive advantage.

### **Raw Materials**

The principal raw materials we use in the manufacture of activated carbon are various forms of coal, including lignite, wood and other carbonaceous materials, which we believe we have in adequate supply. Our raw material supply contracts are typically for a duration of two to five years. We are also developing a lignite mine close to our Marshall, Texas facility, which we expect will begin operations in fiscal 2015.

### **Operations**

We own, or have a controlling interest in, and operate plants that produce activated carbon in the United States, the United Kingdom, The Netherlands and Italy. Our affiliates operate activated carbon plants in Canada and Mexico.

The following table shows our ownership interest as of September 30, 2013 in these segment operations in which we own less than 100%:

Location	Percentage Interest
Bienfait, Saskatchewan, Canada	50% (contractual joint venture)
Atitalaquia, Hidalgo, Mexico	49% (equity affiliate)

Since 2009, two new production lines were added at our largest facility in Marshall, Texas to meet anticipated rising demand for mercury removal solutions. In addition, our Canadian joint venture began operations in 2010. We have permits in place and the potential to add additional capacity at certain of our facilities as needed to meet market demand.

### **Patents and Trademarks**

We own and are a licensee of various patents, which expire at different times, covering many of our products as well as processes and product uses. Although the products made and sold under these patents and licenses are important to Cabot, the loss of any particular patent or license would not materially affect our business, taken as a whole. We sell our products under a variety of trademarks, the loss of any one of which would not materially affect our business, taken as a whole.

### **Seasonality**

Our businesses are generally not seasonal in nature, although we may experience some regional seasonal declines during holiday periods and some weather-related seasonality in Purification Solutions.

### **Backlog**

We do not consider backlog to be a significant indicator of the level of future sales activity. In general, we do not manufacture our products against a backlog of orders. Production and inventory levels are based on the level of incoming orders as well as projections of future demand. Therefore, we believe that backlog information is not material to understanding our overall business and is not a reliable indicator of our ability to achieve any particular level of revenue or financial performance.

### **Employees**

As of September 30, 2013, we had 4,638 employees. Some of our employees in the United States and abroad are covered by collective bargaining or similar agreements. We believe that our relations with our employees are generally satisfactory.

### **Research and Development**

Cabot develops new and improved products and higher efficiency processes through Company-sponsored research and technical service activities, including those initiated in response to customer requests. Our expenditures for such activities generally are spread among our businesses and are shown in

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the consolidated statements of operations. Further discussion of our research and technical expenses incurred in each of our last three fiscal years appears in MD&A in Item 7 below.

**Safety, Health and Environment (“SH&E”)**

Cabot has been named as a potentially responsible party under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (the “Superfund law”) and comparable state statutes with respect to several sites primarily associated with our divested businesses. (See “Legal Proceedings” below.) During the next several years, as remediation of various environmental sites is carried out, we expect to spend against our \$5 million environmental reserve for costs associated with such remediation. Adjustments are made to the reserve based on our continuing analysis of our share of costs likely to be incurred at each site. Inherent uncertainties exist in these estimates due to unknown conditions at the various sites, changing governmental regulations and legal standards regarding liability, and changing technologies for handling site investigation and remediation. While the reserve represents our best estimate of the costs we expect to incur, the actual costs to investigate and remediate these sites may exceed the amounts accrued in the environmental reserve. While it is always possible that an unusual event may occur with respect to a given site and have a material adverse effect on our results of operations in a particular period, we do not believe that the costs relating to these sites, in the aggregate, are likely to have a material adverse effect on our financial position. Furthermore, it is possible that we may also incur future costs relating to environmental liabilities not currently known to us or as to which it is currently not possible to make an estimate.

Our ongoing operations are subject to extensive federal, state, local, and foreign laws, regulations, rules, and ordinances relating to safety, health, and environmental matters (“SH&E Requirements”). These SH&E Requirements include requirements to obtain and comply with various environmental-related permits for constructing any new facilities and operating all of our existing facilities. We have expended and will continue to expend considerable sums to construct, maintain, operate, and improve facilities for safety, health and environmental protection and to comply with SH&E Requirements. We spent approximately \$22 million in environmental-related capital expenditures at existing facilities in fiscal 2013 and anticipate spending approximately \$23 million for such matters in fiscal 2014.

In recognition of the importance of compliance with SH&E Requirements to Cabot, our Board of Directors has a Safety, Health, and Environmental Affairs Committee. The Committee, which is comprised of independent directors, meets at least three times a year and provides oversight and guidance to Cabot’s safety, health and environmental management programs. In particular, the Committee reviews Cabot’s environmental reserve, safety, health and environmental risk assessment and management processes, environmental and safety audit reports, performance metrics, performance as benchmarked against industry peer groups, assessed fines or penalties, site security and safety issues, health and environmental training initiatives, and the SH&E budget. The Committee also consults with our outside and internal advisors regarding management of Cabot’s safety, health and environmental programs.

The International Agency for Research on Cancer (“IARC”) classifies carbon black as a Group 2B substance (known animal carcinogen, possible human carcinogen). We have communicated IARC’s classification of carbon black to our customers and employees and have included that information in our material safety data sheets and elsewhere, as appropriate. We continue to believe that the available evidence, taken as a whole, indicates that carbon black is not carcinogenic to humans, and does not present a health hazard when handled in accordance with good housekeeping and safe workplace practices as described in our material safety data sheets.

The California Office of Environmental Health Hazard Assessment (“OEHHA”) published a notice adding “carbon black (airborne, unbound particles of respirable size)” to the California Safe Drinking Water and Toxic Enforcement Act, commonly referred to as Proposition 65, in 2003. Proposition 65 requires businesses to warn individuals before they knowingly or intentionally expose them to chemicals subject to

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its requirements, and it prohibits businesses from knowingly discharging or releasing the chemicals into water or onto land where they could contaminate drinking water. We worked with the International Carbon Black Association, as well as various customers and carbon black user groups, to ensure our compliance with the requirements associated with the Proposition 65 listing of carbon black, which became effective in February 2004. OEHHA is reportedly considering certain changes that may result in removing the “airborne, unbound particles of respirable size” qualifying language from its listing of carbon black. If this change is adopted by OEHHA, it would result in increased labeling and other requirements for our customers under Proposition 65.

REACH (Registration, Evaluation and Authorization of Chemicals), the European Union (“EU”) regulatory framework for chemicals developed by the European Commission (“EC”), applies to all chemical substances produced or imported into the EU in quantities greater than one metric ton a year. Manufacturers or importers of these chemical substances are required to submit specified health, safety, risk and use information about the substance to the European Chemical Agency. We have and continue to complete the registrations under REACH for our products in accordance with the registration deadlines. We have also worked, and continue to work, with the manufacturers and importers of our raw materials, including our feedstocks, to ensure their registration prior to the applicable deadlines. In addition, the EC has adopted a harmonized definition of “nanomaterial” to be used in the EU to identify materials for which special provisions may apply, such as risk assessment and ingredient labeling. The EC definition is broad and applies to many of our existing products, including carbon black, fumed silica and alumina. Product registration and assessment programs are also developing in other countries and we will be prepared to comply with these programs once adopted.

Environmental agencies worldwide are increasingly implementing regulations and other requirements resulting in more restrictive air emission limits globally, particularly as they relate to nitrogen oxide, sulphur dioxide and particulate matter emissions. In addition, global efforts to reduce greenhouse gas emissions impact the carbon black and activated carbon industries as carbon dioxide is emitted from those manufacturing processes. The EU Emissions Trading Scheme applies to our carbon black and activated carbon facilities in Europe. We generally expect to purchase emission credits where necessary to respond to allocation shortfalls. There are also ongoing regulatory developments in other regions and countries, including the U.S., Canada, China, and Brazil, regarding greenhouse gas emission reduction programs. Those programs have not yet been fully defined and their impact on Cabot cannot be estimated at this time.

A number of organizations and regulatory agencies have become increasingly focused on the issue of water scarcity and water quality, particularly in certain geographic regions. We are engaged in various activities to promote water conservation and wastewater recycling. The costs associated with these activities are not expected to have a material adverse effect on our operations.

Various U.S. agencies and international bodies have adopted security requirements applicable to certain manufacturing and industrial facilities and marine port locations. These security-related requirements involve the preparation of security assessments and security plans in some cases, and in other cases the registration of certain facilities with specified governmental authorities. We closely monitor all security-related regulatory developments and believe we are in compliance with all existing requirements. Compliance with such requirements is not expected to have a material adverse effect on our operations.

### **Foreign and Domestic Operations and Export Sales**

A significant portion of our revenues and operating profits is derived from overseas operations. The profitability of our segments is affected by fluctuations in the value of the U.S. dollar relative to foreign currencies. (See MD&A and the Geographic Information portion of Note T for further information relating to sales and long-lived assets by geographic area.) Currency fluctuations, nationalization and expropriation

of assets are risks inherent in international operations. We have taken steps we deem prudent in our international operations to diversify and otherwise to protect against these risks, including the use of foreign currency financial instruments to reduce the risk associated with changes in the value of certain foreign currencies compared to the U.S. dollar. (See the risk management discussion contained in "Quantitative and Qualitative Disclosures About Market Risk" in Item 7A below and Note K of the Notes to the Company's Consolidated Financial Statements).

#### **Item 1A. Risk Factors**

In addition to factors described elsewhere in this report, the following are important factors that could cause our actual results to differ materially from those expressed in our forward-looking statements. The risks described below are not the only risks we face. Additional risks not presently known to us or that we currently deem immaterial may also impair our business operations and financial results.

##### **Negative or uncertain worldwide or regional economic conditions may adversely impact our business.**

Our operations and performance are affected by worldwide and regional economic conditions. Continued uncertainty or a deterioration in the economic conditions affecting the businesses to which, or geographic areas in which, we sell products could reduce demand for our products, and we may experience pricing pressure on products and services, which could decrease our revenues and have an adverse effect on our financial condition and cash flows. In addition, during periods of economic uncertainty, our customers may temporarily pursue inventory reduction measures that exceed declines in the actual underlying demand. Our businesses are sensitive to industry capacity utilization, particularly Reinforcement Materials. As a result, pricing tends to fluctuate when capacity utilization changes occur, which could affect our financial performance.

##### **As a chemical manufacturing company, our operations have the potential to cause environmental or other damage as well as personal injury.**

The operation of a chemical manufacturing business as well as the sale and distribution of chemical products involve safety, health and environmental risks. For example, the production and/or processing of carbon black, fumed metal oxides, aerogel, activated carbon and other chemicals involve the handling, transportation, manufacture or use of certain substances or components that may be considered toxic or hazardous. Our manufacturing processes and the transportation of chemical products entail risks such as leaks, fires, explosions, toxic releases, mechanical failures or unscheduled downtime. If operational risks materialize, they could result in injury or loss of life, damage to the environment, or damage to property. In addition, the occurrence of material operating problems at our facilities due to any of these hazards may result in loss of production, which, in turn, may make it difficult for us to meet customer needs. Accordingly, these hazards and their consequences could negatively impact the Company's results of operations and cash flows, both during and after the period of operational difficulties, and could harm our reputation.

##### **The strategic growth plan of the mercury removal products portion of our Purification Solutions business relies significantly on the enforcement of environmental laws and regulations.**

The strategic growth plan for the mercury removal products and systems portion of our Purification Solutions business relies significantly upon the enforcement of environmental laws and regulations, particularly those that would require industrial facilities to reduce the quantity of air pollutants they release. In particular, we expect demand for our activated carbon products and systems to increase as coal fired utilities in the U.S. enhance their emission control systems in order to comply with the U.S. Mercury and Air Toxics Standards (MATS), which sets forth federal mercury emission levels that will take effect in April 2015. However, because of the uncertainty associated with implementation of regulations and the potential for delays and challenges, we are unable to predict with certainty when and how MATS and other new standards will affect demand for our activated carbon products and systems.

**Our mining operations have the potential to cause safety issues, including those that could result in significant personal injury, and a disruption in our cesium mining operations could disrupt our supply of raw materials for our Specialty Fluids business.**

We have underground cesium mining operations in Manitoba, Canada, and are developing an above-ground lignite mine close to our Marshall, Texas facility, which we expect will begin operations in fiscal 2015. Mining operations by their nature are activities that involve a high level of uncertainty and are often affected by risks and hazards outside of our control. These operational risks include, but are not limited to, industrial accidents; unexpected geological conditions; fall of ground accidents or structural collapses; and lower than expected ore grades or recovery rate. The failure to adequately manage these risks could result in significant personal injury, loss of life, damage to mineral properties, production facilities or mining equipment, damage to the environment, delays in or reduced production, and potential legal liabilities.

The principal raw material used by our Specialty Fluids business is pollucite (cesium ore), the vast majority of which we obtain from our mine in Manitoba, a portion of which is located under Bernic Lake. In March 2013, a fall of ground occurred in an area of the mine where there had previously been a fall of ground in 2010. Following the March 2013 fall of ground, we implemented additional safety measures and several types of monitoring devices in the mine, based on the advice of our third-party mining consultants. Since their implementation in July 2013, the monitoring devices have indicated good structural stability in the mine, and we have resumed normal mining activities with respect to the areas not affected by the fall of ground. The structural stability may be subject to change at any time, including the potential for further deterioration and flooding, even in the near term. We are assessing development alternatives that, if pursued, we believe will enable us to continue to access our pollucite reserves and expand our existing mining operations. At this stage, it is not possible to be certain of the technical feasibility or the potential cost of such project. In addition, if we proceed with this project, we expect it will take two or more years to complete, and there remains a risk of further deterioration of the mine over this period of time. Further, this project could experience unexpected cost increases or problems or delays, including delays in obtaining environmental or other government approvals. As we assess these alternatives, our existing mining operations in certain portions of the mine continue, and we are increasing our cesium ore inventory in an effort to ensure that we have sufficient raw material inventory to meet our customer needs for the foreseeable future. If we are unable to continue mining or unwilling to incur the costs associated with further developing the mine, we may be unable to obtain additional raw material for our Specialty Fluids business at an acceptable cost or at all.

**Our operations are subject to extensive safety, health and environmental requirements, which could increase our costs and/or reduce our profit.**

Our ongoing operations are subject to extensive federal, state, local and foreign laws, regulations, rules and ordinances relating to safety, health and environmental matters, many of which provide for substantial monetary fines and criminal sanctions for violations. These requirements include requirements to obtain and comply with various environmental-related permits for constructing any new facilities and operating all of our existing facilities. The enactment of new environmental laws and regulations and/or the more aggressive interpretation of existing requirements could require us to incur significant costs for compliance or capital improvements or limit our current or planned operations, any of which could have a material adverse effect on our earnings or cash flow. See "Item 3 Legal Proceedings—Environmental Proceedings".

**Any failure to realize benefits from acquisitions, alliances or joint ventures could adversely affect future financial results.**

Attainment of our strategic plan objectives requires, in part, strategic acquisitions or joint ventures intended to complement or expand our businesses globally or add product technology that accelerates our specialization strategy, or both. The success of acquisitions of businesses, new technologies and products,



or arrangements with third parties is not always predictable and we may not be successful in realizing our objectives as anticipated. We may not be able to integrate any acquired businesses successfully into our existing businesses, make such businesses profitable, or realize anticipated cost savings or synergies, if any, from these acquisitions, which could adversely affect our business results.

**Plant capacity expansions and site development projects may be delayed and/or not achieve the expected benefits.**

Our ability to complete capacity expansions and other site development projects as planned may be delayed or interrupted by the need to obtain environmental and other regulatory approvals, unexpected cost increases, availability of labor and materials, unforeseen hazards such as weather conditions, and other risks customarily associated with construction projects. Moreover, the cost of these activities could have a negative impact on the financial performance of the relevant business, and in the case of capacity expansion projects, until capacity utilization at the particular facility is sufficient to absorb the incremental costs associated with the expansion. In addition, our ability to expand capacity in emerging regions depends in part on economic and political conditions in these regions and, in some cases, on our ability to establish operations, construct additional manufacturing capacity or form strategic business alliances.

**An interruption in our operations as a result of fence-line arrangements could disrupt our manufacturing operations and adversely affect our financial results.**

At certain of our facilities we have fence-line arrangements with adjacent third party manufacturing operations ("fence-line partners"), who provide raw materials for our manufacturing operations and/or take by-products generated from our operations. Accordingly, any unplanned disruptions or curtailments in a fence-line partner's production facilities that impacts their ability to supply us with raw materials or to take our manufacturing by-products could disrupt our manufacturing operations or cause us to incur increased operating costs to mitigate such disruption.

**Volatility in the price of energy and raw materials could decrease our margins.**

Our manufacturing processes consume significant amounts of energy and raw materials, the costs of which are subject to worldwide supply and demand as well as other factors beyond our control. Dramatic increases in such costs or decreases in the availability of raw materials at acceptable costs could have an adverse effect on our results of operations. For example, movements in the market price for crude oil typically affect carbon black feedstock costs. Significant movements in the market price for crude oil tend to create volatility in our carbon black feedstock costs, which can affect our working capital and results of operations. Certain of our carbon black supply contracts contain provisions that adjust prices to account for changes in a relevant feedstock price index. We attempt to offset the effects of increases in raw material costs through selling price increases in our non-contract sales, productivity improvements and cost reduction efforts. Success in offsetting increased raw material costs with price increases is largely influenced by competitive and economic conditions and could vary significantly depending on the segment served. Such increases may not be accepted by our customers, may not be sufficient to compensate for increased raw material and energy costs or may decrease demand for our products and our volume of sales. If we are not able to fully offset the effects of increased raw material or energy costs, it could have a significant impact on our financial results.

**We are exposed to political or country risk inherent in doing business in some countries.**

Sales outside of the U.S. constituted a majority of our revenues in fiscal 2013. Although much of our international business is currently in regions where the political and economic risk levels and established legal systems are similar to those in the United States, we also conduct business in countries that have less stable legal systems and financial markets, and potentially more corrupt business environments than the U.S. Our operations in some countries may be subject to the following risks: changes in the rate of

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economic growth; unsettled political or economic conditions; possible expropriation or other governmental actions; corruption by government officials and other third parties; social unrest, war, terrorist activities or other armed conflict; confiscatory taxation or other adverse tax policies; deprivation of contract rights; trade regulations affecting production, pricing and marketing of products; reduced protection of intellectual property rights; restrictions on the repatriation of income or capital; exchange controls; inflation; currency fluctuations and devaluation; the effect of global health, safety and environmental matters on economic conditions and market opportunities; and changes in financial policy and availability of credit. We have an equity method investment in Venezuela, a country that has established rigid controls over the ability of foreign companies to repatriate cash. Such exchange controls could potentially impact our ability, in both the short and long term, to recover both the cost of our investment and earnings from that investment.

**A significant adverse change in a customer relationship or the failure of a customer or other third party to perform its obligations under agreements with us could harm our business or cash flows.**

Our success in strengthening relationships and growing business with our largest customers and retaining their business over extended time periods could affect our future results. We have a group of key customers across our businesses that together represent a significant portion of our total net sales and operating revenues. The loss of any of our important customers, or a reduction in volumes sold to them, including because of a work stoppage or other disruption, could adversely affect our results of operations until such business is replaced or the disruption ends. Any deterioration in the financial condition of any of our customers or the industries they serve that impairs our customers' ability to make payments to us also could increase our uncollectible receivables and could affect our future results and financial condition. In addition, at times we have significant receivables from a limited number of customers and other parties, which concentration increases our credit risk.

**We face competition from other specialty chemical companies.**

We operate in a highly competitive marketplace. Our ability to compete successfully depends in part upon our ability to maintain a superior technological capability and to continue to identify, develop and commercialize new and innovative, high value-added products for existing and future customers. Increased competition from existing or newly developed products offered by our competitors or companies whose products offer a similar functionality as our products may negatively affect demand for our products. In addition, actions by our competitors could affect our ability to maintain or raise prices, successfully enter new markets or maintain or grow our market position.

**Fluctuations in foreign currency exchange and interest rates could affect our financial results.**

We earn revenues, pay expenses, own assets and incur liabilities in countries using currencies other than the U.S. dollar. In fiscal 2013, we derived a majority of our revenues from sales outside the United States. Because our consolidated financial statements are presented in U.S. dollars, we must translate revenues, income and expenses, as well as assets and liabilities, into U.S. dollars at exchange rates in effect during or at the end of each reporting period. Therefore, increases or decreases in the value of the U.S. dollar against other currencies in countries where we operate will affect our results of operations and the value of balance sheet items denominated in foreign currencies. Due to the geographic diversity of our operations, weaknesses in some currencies might be offset by strengths in others over time. In addition, we are exposed to adverse changes in interest rates. We manage both these risks through normal operating and financing activities and, when deemed appropriate, through the use of derivative instruments as well as foreign currency debt. We cannot be certain, however, that we will be successful in reducing the risks inherent in exposures to foreign currency and interest rate fluctuations.

There are also instances where we have direct current exposures to foreign currency movements because settlement back into a different currency is intended. These situations can have a direct impact on our cash flows.

**The money we spend developing new businesses and technologies may not result in a proportional increase in our revenues or profits.**

We cannot be certain that the costs we incur investing in new businesses and technologies will result in a proportional increase in revenues or profits. In addition, the timely commercialization of products that we are developing may be disrupted or delayed by manufacturing or other technical difficulties, market acceptance or insufficient market size to support a new product, competitors' new products, and difficulties in moving from the experimental stage to the production stage. These disruptions or delays could affect our future business results.

**Our tax rate is dependent upon a number of factors, a change in any of which could impact our future tax rates and net income.**

Our future tax rates may be adversely affected by a number of factors, including the enactment of certain tax legislation being considered in the U.S.; other changes in tax laws or the interpretation of such tax laws; changes in the estimated realization of our net deferred tax assets; the jurisdictions in which profits are determined to be earned and taxed; the repatriation of non-U.S. earnings for which we have not previously provided for U.S. income and non-U.S. withholding taxes; adjustments to estimated taxes upon finalization of various tax returns; increases in expenses that are not deductible for tax purposes, including impairment of goodwill in connection with acquisitions; changes in available tax credits; and the resolution of issues arising from tax audits with various tax authorities. Losses for which no tax benefits can be recorded could materially impact our tax rate and its volatility from one quarter to another. Any significant change in our jurisdictional earnings mix or in the tax laws in those jurisdictions could impact our future tax rates and net income in those periods.

**Regulations requiring a reduction of greenhouse gas emissions impact our carbon black and activated carbon operations.**

Global efforts to reduce greenhouse gas emissions impact the carbon black and activated carbon industries as carbon dioxide is emitted from those manufacturing processes. The European Commission's Emissions Trading Scheme applies to our carbon black and activated carbon facilities in Europe, and we generally expect to purchase emission credits where necessary to respond to allocation shortfalls. However, there can be no assurance that we will be able to purchase emissions credits if our carbon black or activated carbon operations generate more CO<sub>2</sub> than our allocations permit or that the cost of such credits will be acceptable to us. There are also regulatory developments in other regions and countries, including the U.S., Canada, China and Brazil, regarding greenhouse gas emission reduction programs. Those programs have not yet been defined and their potential impact on our manufacturing operations or financial results cannot be estimated at this time.

**Litigation or legal proceedings could expose us to significant liabilities and thus negatively affect our financial results.**

As more fully described in "Item 3—Legal Proceedings", we are a party to or the subject of lawsuits, claims, and proceedings, including, but not limited to, those involving environmental, and health and safety matters as well as product liability and personal injury claims relating to asbestosis, silicosis, and coal worker's pneumoconiosis, and exposure to various chemicals. We are also a potentially responsible party in various environmental proceedings and remediation matters wherein substantial amounts are at issue. Adverse rulings, judgments or settlements in pending or future litigation (including liabilities associated with respirator claims) or in connection with environmental remediation activities could cause our results to differ materially from those expressed or forecasted in any forward-looking statements.

**Our restructuring activities and cost saving initiatives may not achieve the results we anticipate.**

We have undertaken and will continue to undertake cost reduction initiatives and organizational restructurings to improve operating efficiencies, optimize our asset base and generate cost savings. We cannot be certain that we will be able to complete these initiatives as planned or that the estimated operating efficiencies or cost savings from such activities will be fully realized or maintained over time. In addition, when we close manufacturing facilities, we may not be successful in migrating our customers from those closed facilities to our other facilities.

**The reduction or elimination of tariffs placed on U.S. and European imports of Chinese or other foreign activated carbon could have a material adverse effect on Purification Solutions.**

Purification Solutions faces pressure and competition in its U.S. and European markets from low-priced imports of activated carbon products that are frequently sold at less than fair value in the market. If the amounts of these low-priced imports increase, especially if they are sold at less than fair value, our sales of those products could decline, which could have an adverse effect on the earnings of Purification Solutions. In addition, sales of these low-priced imports may make it more difficult for Purification Solutions to pass through raw material cost increases to its customers. U.S. and European regulatory agencies have enacted antidumping duties to limit these activities. However, the antidumping duties in the U.S. could be reduced or eliminated in the future, and the antidumping duties in the European Union may not be renewed beyond their current term. If these antidumping duties are reduced or eliminated, the volume of low-priced activated carbon imports in the U.S and the European Union could increase and, therefore, reduce demand or pricing for our products.

**The continued protection of our patents, trade secrets and other proprietary intellectual property rights are important to our success.**

Our patents, trade secrets and other intellectual property rights are important to our success and competitive position. We own various patents and other intellectual property rights in the U.S. and other countries covering many of our products, as well as processes and product uses. Where we believe patent protection is not appropriate or obtainable, we rely on trade secret laws and practices to protect our proprietary technology and processes, such as physical security, limited dissemination and access and confidentiality agreements with our employees, customers, consultants, business partners, potential licensees and others to protect our trade secrets and other proprietary information. However, trade secrets can be difficult to protect and the protective measures we have put in place may not prevent disclosure or unauthorized use of our proprietary information or provide an adequate remedy in the event of misappropriation or other violations of our proprietary rights. In addition, we are a licensee of various patents and intellectual property rights belonging to others in the U.S. and other countries. Because the laws and enforcement mechanisms of some countries may not allow us to protect our proprietary rights to the same extent as we are able to do in the U.S., the strength of our intellectual property rights will vary from country to country.

Irrespective of our proprietary intellectual property rights, we may be subject to claims that our products, processes or product uses infringe the intellectual property rights of others. These claims, even if they are without merit, could be expensive and time consuming to defend and if we were to lose such claims, we could be enjoined from selling our products or using our processes and/or be subject to damages, or be required to enter into licensing agreements requiring royalty payments and/or use restrictions. Licensing agreements may not be available to us, or if available, may not be available on acceptable terms.

**We may be required to impair or write off certain assets if our assumptions about future sales and profitability prove incorrect.**

In analyzing the value of our inventory, property, plant and equipment, investments, goodwill and intangible assets, we have made assumptions about future sales (pricing and volume), production, costs and cash generation, and market conditions. These assumptions are based on management's best estimates and if the actual results differ significantly from these assumptions, we may not be able to realize the value of the assets recorded as of September 30, 2013, which could lead to an impairment or write-off of certain of these assets in the future. In particular, our assumptions concerning future growth of the Purification Solutions business, which had \$466 million of goodwill at September 30, 2013, are highly dependent on growth in the mercury removal products portion of this business. This growth relies upon the adoption and enforcement of environmental laws and regulations, particularly those requiring U.S.-based coal fired utilities to reduce mercury emissions to comply with MATS by April 2015. A delay in the implementation of these regulations or an extension of time for compliance could negatively affect our growth assumptions.

**We may be subject to information technology systems failures, network disruptions and breaches of data security.**

We depend on integrated information systems to conduct our business. Information technology systems failures, including risks associated with upgrading our systems or in successfully integrating information technology and other systems in connection with the integration of businesses we acquire, network disruptions and breaches of data security could disrupt our operations by impeding our processing of transactions, our ability to protect customer or company information and our financial reporting. Our computer systems, including our back-up systems, could be damaged or interrupted by power outages, computer and telecommunications failures, computer viruses, internal or external security breaches, events such as fires, earthquakes, floods, tornadoes and hurricanes, and/or errors by our employees. Although we have taken steps to address these concerns by implementing sophisticated network security and internal control measures and back-up systems at multiple sites, there can be no assurance that a system failure or data security breach will not have a material adverse effect on our financial condition and results of operations.

**Natural disasters could affect our operations and financial results.**

We operate facilities in areas of the world that are exposed to natural hazards, such as floods, windstorms and earthquakes. Such events could disrupt our supply of raw materials or otherwise affect production, transportation and delivery of our products or affect demand for our products.

**Item 1B. *Unresolved Staff Comments***

None.

**Item 2. Properties**

Cabot's corporate headquarters are in leased office space in Boston, Massachusetts. We also own or lease office, manufacturing, storage, distribution, marketing and research and development facilities in the United States and in foreign countries. The locations of our principal manufacturing and/or administrative facilities are set forth in the table below. Unless otherwise indicated, all the properties are owned.

<u>Location by Region</u>	<u>Reinforcement Materials</u>	<u>Performance Materials</u>	<u>Advanced Technologies</u>	<u>Purification Solutions</u>
<b>Americas Region</b>				
Alpharetta, GA <sup>(1)</sup>	X	X	X	X
Tuscola, IL		X		
Canal, LA	X	X		
Ville Platte, LA	X			
Billerica, MA	X	X	X	X
Haverhill, MA			X	
Midland, MI		X		
Albuquerque, NM (2 plants)*			X	
Pryor, OK				X
Marshall, TX				X
Pampa, TX	X	X		
Campana, Argentina	X			
Maua, Brazil	X	X		
Sao Paulo, Brazil <sup>(1)</sup>	X	X	X	X
Cartagena, Colombia	X			
Lac du Bonnet, Manitoba**			X	
Sarnia, Ontario	X	X		

<sup>(1)</sup> Regional shared service center

\* Leased premises

\*\* Building(s) owned by Cabot on leased land

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Location by Region	Reinforcement Materials	Performance Materials	Advanced Technologies	Purification Solutions
<b>EMEA Region</b>				
Loncin, Belgium		X		
Leuven, Belgium <sup>(1)</sup>	X	X	X	X
Pepinster, Belgium		X		
Valasske Mezirici (Valmez), Czech Republic**	X			
Port Jerome, France**	X			
Frankfurt, Germany*			X	
Rheinfelden, Germany		X		
Ravenna, Italy (2 plants)	X			X
Bergen, Norway*			X	
Kristiansund, Norway*			X	
Aberdeen, Scotland*			X	
Schaffhausen, Switzerland*	X	X	X	X
Botlek, The Netherlands**	X	X		
Amersfoort, The Netherlands*				X
Klazienaveen, The Netherlands				X
Zaandam, The Netherlands				X
Dubai, United Arab Emirates*		X		
Glasgow, United Kingdom				X
Purton, United Kingdom				X
Barry, Wales**		X		
<b>Asia Pacific Region</b>				
Jiangxi Province, China**		X		
Tianjin, China**	X	X		
Shanghai, China <sup>(1)</sup>	X	X	X	X
Shanghai, China** (plant)	X			
Xingtai City, China**	X			
Mumbai, India*	X	X		
Cilegon, Indonesia**	X			
Jakarta, Indonesia*	X	X		
Merak, Indonesia	X			
Chiba, Japan	X			
Shimonoseki, Japan**	X			
Tokyo, Japan*	X	X	X	X
Port Dickson, Malaysia**			X	

<sup>(1)</sup> Regional shared service center

\* Leased premises

\*\* Building(s) owned by Cabot on leased land

We conduct research and development for our various businesses primarily at facilities in Billerica, MA; Albuquerque, NM; Amersfoort, The Netherlands; Pampa, TX; Pepinster, Belgium; Frankfurt and Rheinfelden, Germany; and Shanghai, China.

Our existing manufacturing plants will generally have sufficient production capacity to meet current requirements and expected near-term growth. These plants are generally well maintained, in good operating condition and suitable and adequate for their intended use. Our administrative offices and other facilities are generally suitable and adequate for their intended purposes.

### **Item 3.      *Legal Proceedings***

Cabot is a party in various lawsuits and environmental proceedings wherein substantial amounts are claimed. The following is a description of the significant proceedings pending on September 30, 2013, unless otherwise specified.

#### **Environmental Proceedings**

In November 2013, Cabot entered into a Consent Decree with the United States Environmental Protection Agency (“EPA”) and the Louisiana Department of Environmental Quality (“LDEQ”) regarding Cabot’s three carbon black manufacturing facilities in the United States. The Consent Decree will become effective once a public comment period has expired and it has been approved by the U.S. District Court for the Western District of Louisiana. This settlement is related to EPA’s national enforcement initiative focused on the U.S. carbon black manufacturing sector alleging non-compliance with certain regulatory and permitting requirements under The Clean Air Act, including the New Source Review (“NSR”) construction permitting requirements. Pursuant to this settlement, Cabot will pay a combined \$975,000 civil penalty to EPA and LDEQ, and fund \$450,000 in environmental mitigation projects in the three communities where the plants are located and install technology controls for sulfur dioxide and nitrogen oxide. We expect that the capital costs to install these controls will total approximately \$85 million and will be incurred over approximately six and one-half years. In addition, Cabot has agreed to certain best management practices (“BMPs”) to control emissions of particulate matter at the three locations. It is expected that other carbon black manufacturers will also be required to install technology controls and agree to adopt BMPs at their U.S. facilities in connection with this initiative and are also likely to pay a civil penalty and fund mitigation projects.

In an unrelated EPA matter, in June 2012, the activated carbon facility in Marshall, Texas that Cabot acquired in its acquisition of Norit received an information request from EPA. That request focuses on historic compliance with Clean Air Act permitting and regulatory requirements, including NSR requirements. Cabot has responded to that request. It is unknown at this time what prompted this request for information and how this matter will be resolved.

In November 2013, the Texas Commission on Environmental Quality (TCEQ) issued a proposed Agreed Order to Cabot for alleged air violations at Cabot’s carbon black production facility in Pampa, TX. Pursuant to the Agreed Order, TCEQ is proposing an administrative penalty of approximately \$570,000 to resolve the alleged violations. TCEQ had raised the allegations in a March 2013 Notice of Enforcement, without proposing any specific penalty amount at that time. Cabot responded to the Notice of Enforcement in a timely manner, including taking certain corrective actions, and believed that the matter was resolved. Cabot disagrees with TCEQ’s proposed Agreed Order and the proposed penalty and will be challenging them in accordance with the appropriate process.

In 1986, Cabot sold a beryllium manufacturing facility in Reading, Pennsylvania to NGK Metals, Inc. (“NGK”). In doing so, we agreed to share with NGK the costs of certain environmental remediation of the Reading plant site. After the sale, the EPA issued an order to NGK pursuant to the Resource Conservation and Recovery Act (“RCRA”) requiring NGK to address soil and groundwater contamination at the site. Soil remediation at the site has been completed and the groundwater remediation activities are ongoing pursuant to the RCRA order. We are contributing to the costs of the groundwater remediation activities pursuant to the cost-sharing agreement with NGK. Cabot and NGK are also pursuing various legal claims against the U.S. for cost recovery and participation in future remediation activities based on the U.S.’s previous involvement at the site and contractual arrangements, beginning in World War II and continuing thereafter.

We continue to perform certain sampling and remediation activities at a former pine tar manufacturing site in Gainesville, Florida that we sold in the 1960s. Those activities are pursuant to a formal Record of Decision and 1991 Consent Decree with EPA. Cabot installed a groundwater treatment



system at the site in the early 1990s, and that system is still in operation. We have also been requested by EPA and other stakeholders to carry out various other additional work at the site, the scope of which has yet to be determined. We continue to work cooperatively with EPA, the Florida Department of Environmental Protection and the local authorities on this matter.

As of September 30, 2013, we had a \$5 million reserve, on both a discounted and undiscounted basis, for environmental remediation costs at various sites. The operation and maintenance component of this reserve was \$3 million, on both a discounted and undiscounted basis. The \$5 million reserve represents our current best estimate of costs likely to be incurred for remediation based on our analysis of the extent of cleanup required, alternative cleanup methods available, the ability of other responsible parties to contribute and our interpretation of laws and regulations applicable to each of our sites.

## **Other Proceedings**

### ***Respirator Liabilities***

We have exposure in connection with a safety respiratory products business that a subsidiary acquired from American Optical Corporation ("AO") in an April 1990 asset purchase transaction. The subsidiary manufactured respirators under the AO brand and disposed of that business in July 1995. In connection with its acquisition of the business, the subsidiary agreed, in certain circumstances, to assume a portion of AO's liabilities, including costs of legal fees together with amounts paid in settlements and judgments, allocable to AO respiratory products used prior to the 1990 purchase by the Cabot subsidiary. In exchange for the subsidiary's assumption of certain of AO's respirator liabilities, AO agreed to provide to the subsidiary the benefits of: (i) AO's insurance coverage for the period prior to the 1990 acquisition and (ii) a former owner's indemnity of AO holding it harmless from any liability allocable to AO respiratory products used prior to May 1982.

Generally, these respirator liabilities involve claims for personal injury, including asbestosis, silicosis and coal worker's pneumoconiosis, allegedly resulting from the use of respirators that are claimed to have been negligently designed or labeled. Neither Cabot, nor its past or present subsidiaries, at any time manufactured asbestos or asbestos-containing products. At no time did this respiratory product line represent a significant portion of the respirator market.

The subsidiary transferred the business to Aearo Corporation ("Aearo") in July 1995. Cabot agreed to have the subsidiary retain certain liabilities associated with exposure to asbestos and silica while using respirators prior to the 1995 transaction so long as Aearo paid, and continues to pay, Cabot an annual fee of \$400,000. Aearo can discontinue payment of the fee at any time, in which case it will assume the responsibility for and indemnify Cabot against those liabilities which Cabot's subsidiary had agreed to retain. We anticipate that we will continue to receive payment of the \$400,000 fee from Aearo and thereby retain these liabilities for the foreseeable future. We have no liability in connection with any products manufactured by Aearo after 1995.

In addition to Cabot's subsidiary and as described above, other parties are responsible for significant portions of the costs of respirator liabilities, leaving Cabot's subsidiary with a portion of the liability in only some of the pending cases. These parties include Aearo, AO, AO's insurers, and another former owner and its insurers (collectively, with Cabot's subsidiary, the "Payor Group").

As of both September 30, 2013 and 2012, there were approximately 42,000 claimants in pending cases asserting claims against AO in connection with respiratory products. Cabot has contributed to the Payor Group's defense and settlement costs with respect to a percentage of pending claims depending on several factors, including the period of alleged product use. In order to quantify our estimated share of liability for pending and future respirator liability claims, we have engaged, through counsel, the assistance of Hamilton, Rabinovitz & Alschuler, Inc. ("HR&A"), a leading consulting firm in the field of tort liability valuation. The methodology used by HR&A addresses the complexities surrounding our potential liability by making assumptions about future claimants with respect to periods of asbestos, silica and coal mine dust exposure

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and respirator use. Using those and other assumptions, HR&A estimates the number of future asbestos, silica and coal mine dust claims that will be filed and the related costs that would be incurred in resolving both currently pending and future claims. On this basis, HR&A then estimates the net present value of the share of these liabilities that reflect our period of direct manufacture and our contractual obligations. Based on the HR&A estimates, we have recorded on a discounted basis an \$11 million reserve (\$15 million on an undiscounted basis) to cover our estimated share of liability for pending and future respirator claims. We made payments related to our respirator liability of \$2 million in fiscal 2013, \$2 million in fiscal 2012 and \$5 million in fiscal 2011.

Our current estimate of the cost of our share of existing and future respirator liability claims is based on facts and circumstances existing at this time. Developments that could affect our estimate include, but are not limited to, (i) significant changes in the number of future claims, (ii) changes in the rate of dismissals without payment of pending silica and non-malignant asbestos claims, (iii) significant changes in the average cost of resolving claims, (iv) significant changes in the legal costs of defending these claims, (v) changes in the nature of claims received, (vi) changes in the law and procedure applicable to these claims, (vii) the financial viability of members of the Payor Group, (viii) a change in the availability of AO's insurance coverage or the indemnity provided by AO's former owner, (ix) changes in the allocation of costs among the Payor Group, and (x) a determination that the assumptions that were used to estimate our share of liability are no longer reasonable. We cannot determine the impact of these potential developments on our current estimate of our share of liability for these existing and future claims. Accordingly, the actual amount of these liabilities for existing and future claims could be different than the reserved amount. Further, if the timing of our actual payments made for respirator claims differs significantly from our estimated payment schedule, and we determine that we can no longer reasonably predict the timing of such payments, we could then be required to record the reserve amount on an undiscounted basis on our Consolidated Balance Sheets, causing an immediate impact to earnings.

***Other Matters***

We have various other lawsuits, claims and contingent liabilities. In our opinion, although final disposition of some or all of these other suits and claims may impact our financial statements in a particular period, they should not, in the aggregate, have a material adverse effect on our financial position.

**Item 4. *Mine Safety Disclosures***

Not applicable.

## **Executive Officers of the Registrant**

Set forth below is certain information about Cabot's executive officers. Ages are as of November 27, 2013.

Patrick M. Prevost, age 58, is President and Chief Executive Officer and a member of Cabot's Board of Directors, positions he has held since joining Cabot in January 2008. Prior to joining Cabot, since October 2005, Mr. Prevost served as President, Performance Chemicals, of BASF AG, an international chemical company. Prior to that, he was responsible for BASF Corporation's Chemicals and Plastics business in North America. Prior to joining BASF in 2003, he held senior management positions at BP and Amoco.

Eduardo E. Cordeiro, age 46, is Executive Vice President and Chief Financial Officer. Mr. Cordeiro joined Cabot in 1998 as Manager of Corporate Planning and served in that position until January 2000. Mr. Cordeiro was Director of Finance and Investor Relations from January 2000 to March 2002, Corporate Controller from March 2002 to July 2003, General Manager of the Fumed Metal Oxides Business from July 2003 to January 2005, General Manager of the Supermetals Business from January 2005 to May 2008, and responsible for Corporate Strategy from May 2008 until February 2009, when he became Cabot's Chief Financial Officer. Mr. Cordeiro was appointed Vice President in March 2003 and Executive Vice President in March 2009.

David A. Miller, age 54, is Executive Vice President and President of Reinforcement Materials and of the Americas region. Prior to joining Cabot in September 2009, Mr. Miller held a variety of management positions in BP's chemical business in North America, Europe and Asia, including as President, Aromatics Asia, Europe and Middle East from January 2007 to July 2009, President, Global Purified Terephthalic Acid from October 2005 to January 2007, and Senior Vice President, Olefins and Derivatives China & Asia Operations (Innovene division) from January 2004 to October 2005.

Brian A. Berube, age 51, is Senior Vice President and General Counsel. Mr. Berube joined Cabot in 1994 as an attorney in Cabot's law department and became Deputy General Counsel in June 2001, Business General Counsel in March 2002, and General Counsel in March 2003. Mr. Berube was appointed Vice President in March 2002 and Senior Vice President in March 2012.

Sean D. Keohane, age 46, is Senior Vice President and President of Performance Materials. Mr. Keohane joined Cabot in August 2002 as Global Marketing Director. Mr. Keohane was General Manager of the Specialty Carbons and Compounds Business from October 2003 until May 2008, when he was named General Manager of Performance Materials. He was appointed Vice President in March 2005 and Senior Vice President in March 2012. Before joining Cabot, Mr. Keohane worked for Pratt & Whitney, a division of United Technologies, in a variety of leadership positions.

## PART II

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

Cabot's common stock is listed for trading (symbol CBT) on the New York Stock Exchange. As of November 19, 2013, there were 891 holders of record of Cabot's common stock. The tables below show the high and low sales price for Cabot's common stock for each of the fiscal quarters ended December 31, March 31, June 30, and September 30 and the quarterly cash dividend paid on Cabot's common stock for the past two fiscal years.

#### Stock Price and Dividend Data

	Quarters Ended			
	December 31	March 31	June 30	September 30
<b>Fiscal 2013</b>				
Cash dividends per share	\$ 0.20	\$ 0.20	\$ 0.20	\$ 0.20
Price range of common stock:				
High	\$ 40.95	\$44.16	\$41.38	\$ 43.36
Low	\$ 32.57	\$33.00	\$32.13	\$ 37.18
<b>Fiscal 2012</b>				
Cash dividends per share	\$ 0.18	\$ 0.18	\$ 0.20	\$ 0.20
Price range of common stock:				
High	\$ 34.35	\$43.76	\$44.97	\$ 41.75
Low	\$ 22.45	\$31.70	\$ 35.11	\$ 33.90

#### Issuer Purchases of Equity Securities

The table below sets forth information regarding Cabot's purchases of its equity securities during the quarter ended September 30, 2013:

Period	Total Number of Shares Purchased <sup>(1)</sup>	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs <sup>(1)</sup>	Maximum Number (or Approximate Dollar Value) of Shares that May Yet Be Purchased Under the Plans or Programs <sup>(1)</sup>
July 1, 2013—July 31, 2013	—	\$ —	—	1,636,167
August 1, 2013—August 31, 2013	—	\$ —	—	1,636,167
September 1, 2013—September 30, 2013	—	\$ —	—	1,636,167
Total	—	—	—	—

<sup>(1)</sup> On May 11, 2007, we publicly announced that the Board of Directors authorized us to repurchase five million shares of our common stock on the open market or in privately negotiated transactions. On September 14, 2007, the Board of Directors increased the share repurchase authorization to 10 million shares (the "2007 Authorization"). This authorization does not have a set expiration date. In the fourth quarter of 2013 we did not repurchase shares under this authorization.

### Item 6. **Selected Financial Data**

On July 31, 2012, Cabot completed the purchase of Norit NV. The operating results and ratios presented below for fiscal 2012 include two months of results of Norit NV. The September 30, 2012 balance sheet items presented below include those of Norit NV.

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On January 20, 2012, the Company completed the sale of its Supermetals Business. The results of its operations for all periods presented are reflected as discontinued operations in the Consolidated Statements of Operations.

	Years Ended September 30				
	2013	2012	2011	2010	2009
	(Dollars in millions, except per share amounts and ratios)				
<b>Consolidated Net Income (Loss)</b>					
Net sales and other operating revenues	\$ 3,463	\$ 3,300	\$ 3,102	\$ 2,716	\$ 2,108
Gross profit	636	648	558	510	217
Selling and administrative expenses	299	285	249	241	205
Research and technical expenses	74	73	66	65	66
Income (loss) from operations <sup>(1)</sup>	263	290	243	204	(54)
Net interest expense and other charges <sup>(2)</sup>	(58)	(45)	(40)	(38)	(45)
Income (loss) from continuing operations	205	245	203	166	(99)
(Provision) benefit for income taxes <sup>(3)</sup>	(58)	(55)	(6)	(30)	21
Equity in earnings of affiliated companies	11	11	8	7	5
Income (loss) from discontinued operations, net of tax	2	205	53	26	(2)
Net income (loss)	160	406	258	169	(75)
Net income attributable to noncontrolling interests, net of tax	7	18	22	15	2
Net income (loss) attributable to Cabot Corporation	\$ 153	\$ 388	\$ 236	\$ 154	\$ (77)
<b>Common Share Data</b>					
Diluted net income (loss) attributable to Cabot Corporation:					
Income (loss) from continuing operations	\$ 2.32	\$ 2.83	\$ 2.77	\$ 1.94	\$ (1.21)
Income (loss) from discontinued operations	0.04	3.16	0.80	0.41	(0.04)
Net income (loss) attributable to Cabot Corporation	\$ 2.36	\$ 5.99	\$ 3.57	\$ 2.35	\$ (1.25)
Dividends	\$ 0.80	\$ 0.76	\$ 0.72	\$ 0.72	\$ 0.72
Closing prices	\$ 42.71	\$ 36.57	\$ 24.78	\$ 32.57	\$ 23.11
Weighted-average diluted shares outstanding—millions <sup>(4)</sup>	64.5	64.2	65.4	64.3	62.8
Shares outstanding at year end—millions	64.0	63.3	63.9	65.4	65.3
<b>Consolidated Financial Position</b>					
Current assets	\$ 1,495	\$ 1,443	\$ 1,555	\$ 1,438	\$ 1,200
Net property, plant, and equipment	1,605	1,552	1,036	937	972
Other assets	1,133	1,404	550	511	504
Total assets	\$ 4,233	\$ 4,399	\$ 3,141	\$ 2,886	\$ 2,676
Current liabilities	\$ 844	\$ 919	\$ 656	\$ 539	\$ 477
Long-term debt	1,020	1,172	556	600	623
Other long-term liabilities	286	369	313	330	339
Cabot Corporation stockholders' equity	1,951	1,813	1,487	1,302	1,134
Noncontrolling interests	132	126	129	115	103
Total liabilities and stockholders' equity	\$ 4,233	\$ 4,399	\$ 3,141	\$ 2,886	\$ 2,676
<b>Selected Financial Ratios</b>					
Adjusted return on invested capital <sup>(5)</sup>	8%	12%	16%	14%	2%
Net debt to capitalization ratio <sup>(6)</sup>	36%	40%	20%	16%	22%

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(1) Income (loss) from operations includes certain items as presented in the table below:

	Years Ended September 30				
	2013	2012	2011	2010	2009
	(Dollars in millions)				
Global restructuring activities	\$ (37)	\$ (17)	\$ (18)	\$ (46)	\$ (87)
Environmental and legal reserves	(1)	(4)	(1)	(3)	—
Reserve for respirator claims	—	(4)	—	(2)	—
Acquisition and integration related charges	(21)	(26)	—	—	—
Long-lived asset impairment	—	—	—	(2)	—
Write-down of impaired investments	—	—	—	—	(1)
Executive transition costs	—	—	—	—	(4)
Foreign currency gain on revaluations	3	—	—	—	—
Certain items, pre-tax	\$ (56)	\$ (51)	\$ (19)	\$ (53)	\$ (92)

(2) Net interest expense and other charges include foreign currency gains of \$2 million for fiscal 2013 and losses of \$2 million, \$6 million, and \$15 million for fiscal 2012, 2011 and 2009, respectively. Net interest expense and other charges for fiscal 2010 includes foreign currency gains of less than \$1 million.

(3) The Company's effective tax rate for fiscal 2013 was 28% which includes net discrete tax charges of \$3 million, composed of a \$13 million foreign currency related charge, offset by \$10 million of net tax benefit related to tax settlements, renewal of the U.S. research and experimentation ("R&E") credit, and other miscellaneous tax items in the tax provision. The Company's effective tax rate for fiscal 2012 was a provision of 22% which includes net discrete tax benefits of \$8 million from the release of a valuation allowance and \$3 million from settlements and miscellaneous tax items. The Company's effective tax rate for fiscal 2011 was a provision of 3% which includes net tax benefits of \$24 million from the repatriation of high taxed income, \$10 million from the settlements of various tax audits, \$2 million from the renewal of the R&E credit and \$2 million for investment incentive tax credits recognized in China. The Company's effective tax rate for fiscal 2010 was a provision of 18% which includes net tax benefits of \$15 million from the settlements of various tax audits and \$2 million for investment incentive tax credits. The Company's effective tax rate for fiscal 2009 was a benefit of 21%, which includes \$12 million of net tax benefits resulting from settlements of various tax audits and tax credits during the year.

(4) The weighted-average diluted shares outstanding for fiscal 2009 exclude approximately 4 million shares as those shares would have had an antidilutive effect due to the Company's net loss position.

(5) Adjusted return on invested capital ("Adjusted ROIC") is a non-GAAP financial measure that management believes is useful to investors as a measure of performance and the effectiveness of our use of capital. We use Adjusted ROIC as one measure to monitor and evaluate performance. ROIC is not a measure of financial performance under GAAP and may not be defined and calculated by other companies in the same manner. Adjusted ROIC, which excludes items that management considers to be unusual and not representative of the Company's segment results, is calculated as follows:

Numerator (four quarter rolling):

Net income (loss) attributable to Cabot Corporation
Less the after-tax impact of:
Noncontrolling interest in net income
Interest expense
Interest income
Certain items

Denominator:

Previous four quarter average invested capital calculated as follows:

Total Cabot Corporation stockholders' equity

Plus: Noncontrolling interests' equity

Long-term debt

Current portion of long-term debt

Notes payable

Less: Cash and cash equivalents

Less the four quarter rolling impact of after tax certain items.

<sup>(6)</sup> Net debt to capitalization ratio is calculated by dividing total debt (the sum of short-term and long-term debt less cash and cash equivalents) by total capitalization (the sum of Total stockholders' equity plus total debt).

**Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations****Critical Accounting Policies**

The preparation of our financial statements requires management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues, and expenses and related disclosure of contingent assets and liabilities. We consider an accounting estimate to be critical to the financial statements if (i) the estimate is complex in nature or requires a high degree of judgment and (ii) different estimates and assumptions were used, the results could have a material impact on the consolidated financial statements. On an ongoing basis, we evaluate our estimates and application of our policies. We base our estimates on historical experience, current conditions and on various other assumptions that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions. The policies that we believe are critical to the preparation of the Consolidated Financial Statements are presented below.

**Revenue Recognition and Accounts and Notes Receivable**

We recognize revenue when persuasive evidence of an arrangement exists, delivery has occurred or services have been rendered, the price is fixed or determinable and collectability is reasonably assured. We generally are able to ensure that products meet customer specifications prior to shipment. If we are unable to determine that the product has met the specified objective criteria prior to shipment or if title has not transferred because of sales terms, the revenue is considered "unearned" and is deferred until the revenue recognition criteria are met.

Shipping and handling charges related to sales transactions are recorded as sales revenue when billed to customers or included in the sales price.

The following table shows the relative size of the revenue recognized in each of the Company's reportable segments:

	Years ended September 30		
	2013	2012	2011
Reinforcement Materials	56%	63%	65%
Performance Materials	27%	28%	29%
Advanced Technologies	7%	7%	6%
Purification Solutions	10%	2% <sup>(1)</sup>	N/A

<sup>(1)</sup> Fiscal 2012 consists of two months of revenues for Purification Solutions, which we acquired on July 31, 2012.

We derive the substantial majority of revenues from the sale of products in Reinforcement Materials and Performance Materials. Revenue from these products is typically recognized when the product is shipped and title and risk of loss have passed to the customer. We offer certain customers cash discounts and volume rebates as sales incentives. The discounts and volume rebates are recorded as a reduction in sales at the time revenue is recognized and are estimated based on historical experience and contractual obligations. We periodically review the assumptions underlying estimates of discounts and volume rebates and adjust revenues accordingly.

Revenue in Advanced Technologies, excluding the Specialty Fluids Business, is typically recognized when the product is shipped and title and risk of loss have passed to the customer. Depending on the nature of the contract with the customer, a portion of the revenue may be recognized using proportional performance. We have technology and licensing agreements with one customer that are accounted for as multiple element arrangements. Revenue is recognized ratably over the term of the agreements limited by the cumulative amounts that become due, some of which are through 2022. We recorded \$9 million of royalty and technology payments in fiscal year 2013 from these agreements.



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A significant portion of the revenue in the Specialty Fluids Business, included in Advanced Technologies, arises from the rental of cesium formate. This revenue is recognized throughout the rental period based on the contracted rental terms. Customers are also billed and revenue is recognized, typically at the end of the job, for cesium formate product that is not returned. We also generate revenues from cesium formate sold outside of a rental process and revenue is recognized upon delivery of the fluid.

Revenue in Purification Solutions is typically recognized when the product is shipped and title and risk of loss have passed to the customer. For major activated carbon injection systems projects, revenue is recognized using the percentage-of-completion method.

We maintain allowances for doubtful accounts based on an assessment of the collectability of specific customer accounts, the aging of accounts receivable and other economic information on both a historical and prospective basis. Customer account balances are charged against the allowance when it is probable the receivable will not be recovered. The change from fiscal 2012 to 2013 was \$3 million due to an increase in specific customer reserves. The change from fiscal 2011 to 2012 was immaterial. There is no off-balance sheet credit exposure related to customer receivable balances.

### ***Inventory Valuation***

The cost of all carbon black inventories in the U.S. is determined using the last-in, first-out ("LIFO") method. Total U.S. inventories utilizing this cost flow assumption were valued at \$24 million at September 30, 2013 and \$26 million at September 30, 2012. These inventories represent 5% of total worldwide inventories at both September 30, 2013 and 2012. Had we used the first-in, first-out ("FIFO") method instead of the LIFO method for such inventories, the value of those inventories would have been \$55 million and \$52 million higher as of September 30, 2013 and 2012, respectively. The cost of Specialty Fluids inventories is determined using the average cost method. The cost of other U.S. and all non-U.S. inventories is determined using the FIFO method. In periods of rapidly rising or declining raw material costs, the inventory method we employ can have a significant impact on our profitability.

At certain times, we may decrease inventory levels to the point where layers of inventory recorded under the LIFO method that were purchased in preceding years are liquidated. The inventory in these layers may be valued at an amount that is different than our current costs. If there is a liquidation of an inventory layer, there may be an impact to our cost of sales and net income for that period. If the liquidated inventory is at a cost lower than our current cost, there would be a reduction in our cost of sales and an increase to our net income during the period.

During fiscal 2013 and fiscal 2012, inventory quantities carried on a LIFO basis were reduced, leading to liquidations of LIFO inventory quantities. These LIFO layer liquidations resulted in a decrease of cost of goods sold of \$1 million and an increase in consolidated net income of \$1 million (\$0.01 per diluted common share) in both fiscal 2013 and 2012. No such reductions occurred in fiscal 2011.

We review inventory for both potential obsolescence and potential loss of value periodically. In this review, we make assumptions about the future demand for and market value of the inventory and based on these assumptions estimate the amount of any obsolete, unmarketable or slow moving inventory. We write down the value of our inventories by an amount equal to the difference between the cost of inventory and the estimated market value. Historically, such write-downs have not been significant. If actual market conditions are less favorable than those projected by management at the time of the assessment, however, additional inventory write-downs may be required, which could reduce our gross profit and our earnings.

### ***Stock-based Compensation***

We have issued restricted stock, restricted stock units, and stock options under our equity compensation plans. The fair value of restricted stock and restricted stock units is the closing price of our stock on the day of the grant. The fair value is recognized as expense over the service period, which generally represents the vesting period. The vesting of certain restricted stock units is dependent on certain performance-based criteria. We evaluate the likelihood of achievement of such performance

objectives each quarter and record stock-based compensation based on this assessment. There are no other significant estimates involved in recording compensation costs for restricted stock units with the exception of estimates we make around the probability of forfeitures. Changes in the forfeiture assumptions could impact our earnings but would not impact our cash flows.

We use the Black-Scholes option pricing model to calculate the fair value of stock options issued under our equity compensation plans. In determining the fair value of stock options, we make a variety of assumptions and estimates, including discount rates, volatility measures, expected dividends and expected option lives. Changes to such assumptions and estimates can result in different fair values and could therefore impact our earnings. Such changes would not impact our cash flows.

### ***Goodwill and Long-Lived Assets***

We record tangible and intangible assets acquired and liabilities assumed in business combinations under the acquisition method of accounting. Amounts paid for an acquisition are allocated to the assets acquired and liabilities assumed based on their fair values at the date of acquisition. Goodwill is comprised of the purchase price of business acquisitions in excess of the fair value assigned to the net tangible and identifiable intangible assets acquired. Goodwill is not amortized but is reviewed for impairment annually, or when events or changes in the business environment indicate that the carrying value of the reporting unit may exceed its fair value. A reporting unit, for the purpose of the impairment test, is at or below the operating segment level, and constitutes a business for which discrete financial information is available and regularly reviewed by segment management. The separate businesses included within Performance Materials and Advanced Technologies are considered separate reporting units. Goodwill balances relative to these segments are recorded in the Fumed Metal Oxides reporting unit within Performance Materials and the Security Materials reporting unit within Advanced Technologies.

For the purpose of the goodwill impairment test, we first assess qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying value amount and as a basis for determining whether it is necessary to perform the two-step goodwill impairment test. Alternatively, we may elect to proceed directly to the two-step goodwill impairment test. If an initial qualitative assessment identifies that it is more likely than not that the carrying value of a reporting unit exceeds its estimated fair value, an additional quantitative evaluation is performed under the two-step impairment test. If based on the quantitative evaluation the fair value of the reporting unit is less than its carrying amount, we perform an analysis of the fair value of all assets and liabilities of the reporting unit. If the implied fair value of the reporting unit's goodwill is determined to be less than its carrying amount, an impairment is recognized for the difference. The fair value of a reporting unit is based on discounted estimated future cash flows. The assumptions used to estimate fair value include management's estimates of future growth rates, operating cash flows, capital expenditures, and discount rates over an estimate of the remaining operating period at the reporting unit level. Should the fair value of any of our reporting units decline because of reduced operating performance, market declines, or other indicators of impairment, or as a result of changes in the discount rate, charges for impairment may be necessary. The future growth in the Purification Solutions business, which had \$466 million of goodwill at September 30, 2013, is highly dependent on the growth in the mercury removal portion of this business. This growth relies upon the adoption and enforcement of environmental laws and regulations, particularly those that would require U.S. based coal fired electrical utilities to reduce the quantity of air pollutants they release, including mercury, to comply with the Mercury and Air Toxics Standards that become effective in April 2015. The annual review is performed as of May 31.

We use assumptions and estimates in determining the fair value of assets acquired and liabilities assumed in a business combination. The determination of the fair value of intangible assets requires the use of significant judgment with regard to (i) assumptions used in the valuation model; and (ii) determination of the intangible assets' useful lives. We estimate the fair value of identifiable acquisition-related intangible assets principally based on projections of cash flows that will arise from these assets. The projected cash flows are discounted to determine the fair value of the assets at the dates of acquisition. We review definite-lived intangible assets for

impairment when indication of potential impairment exists, such as a significant reduction in cash flows associated with the assets. Actual cash flows arising from a particular intangible asset could vary from projected cash flows which could imply different carrying values from those established at the dates of acquisition and which could result in impairment of such asset. We evaluate indefinite-lived intangible assets for impairment annually or when events occur or circumstances change that may reduce the fair value of the asset below its carrying amount. The annual review is performed as of May 31. We may first perform a qualitative assessment to determine whether it is necessary to perform the quantitative impairment test or bypass the qualitative assessment and proceed directly to performing the quantitative impairment test. The quantitative impairment test is based on discounted estimated future cash flows. The assumptions used to estimate fair value include management's estimates of future growth rates and discount rates over an estimate of the remaining operating period at the unit of accounting level. Our intangible assets are primarily comprised of trademarks, customer relationships, patented and unpatented technology and other intellectual property. Finite lived intangible assets are amortized over their estimated useful lives.

Our long-lived assets primarily include property, plant and equipment, long-term investments, assets held for rent and sale. The carrying values of long-lived assets are reviewed for impairment whenever events or changes in business circumstances indicate that the carrying amount of an asset may not be recoverable. An asset impairment is recognized when the carrying value of the asset is not recoverable based on the probability-weighted undiscounted estimated future cash flows to be generated by the asset. Our estimates reflect management's assumptions about selling prices, production and sales volumes, costs and market conditions over an estimate of the remaining operating period. If an impairment is indicated, the asset is written down to fair value. If the asset does not have a readily determinable market value, a discounted cash flow model may be used to determine the fair value of the asset. The key inputs to the discounted cash flow would be the same as the undiscounted cash flow noted above, with the addition of the discount rate used. In circumstances when an asset does not have separate identifiable cash flows, an impairment charge is recorded when we no longer intend to use the asset.

To test for impairment of assets we generally use a probability-weighted estimate of the future undiscounted net cash flows of the assets over their remaining lives to determine if the value of the asset is recoverable. Long-lived assets are grouped with other assets and liabilities at the lowest level for which independent identifiable cash flows are determinable.

### ***Financial Instruments***

Our financial instruments consist primarily of cash and cash equivalents, accounts and notes receivable, investments, notes receivable from the sale of a business, accounts payable and accrued liabilities, short-term and long-term debt, and derivative instruments. The carrying values of our financial instruments approximate fair value with the exception of long-term debt that has not been designated as part of a fair value hedge and notes receivable from the sale of business. The non-hedged long-term debt and notes receivable from the sale of business are recorded at amortized cost. The fair values of our financial instruments are based on quoted market prices, if such prices are available. In situations where quoted market prices are not available, we rely on valuation models to derive fair value. Such valuation takes into account the ability of the financial counterparty to perform.

We use derivative financial instruments primarily for purposes of hedging exposures to fluctuations in interest rates and foreign currency exchange rates, which exist as part of our on-going business operations. We do not enter into derivative contracts for speculative purposes, nor do we hold or issue any derivative contracts for trading purposes. All derivatives are recognized on the Consolidated Balance Sheets at fair value. Where we have a legal right to offset derivative settlements under a master netting agreement with a counterparty, derivatives with that counterparty are presented on a net basis. The changes in the fair value of derivatives are recorded in either earnings or Accumulated other comprehensive income, depending on whether or not the instrument is designated as part of a hedge transaction and, if designated as part of a hedge transaction, the type of hedge transaction. The gains or

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losses on derivative instruments reported in Accumulated other comprehensive income are reclassified to earnings in the period in which earnings are affected by the underlying hedged item. The ineffective portion of all hedges is recognized in earnings during the period in which the ineffectiveness occurs.

In accordance with our risk management strategy, we may enter into certain derivative instruments that may not be designated as hedges for hedge accounting purposes. Although these derivatives are not designated as hedges, we believe that such instruments are closely correlated with the underlying exposure, thus managing the associated risk. We record in earnings the gains or losses from changes in the fair value of derivative instruments that are not designated as hedges. Cash movements associated with these instruments are presented in the Consolidated Statement of Cash Flows as Cash Flows from Operating Activities because the derivatives are designed to mitigate risk to our cash flow from operations. The cash flows relating to the principal of these instruments was presented in the Cash Flows from Financing Activities section of the Consolidated Statement of Cash Flows.

Assets and liabilities measured at fair value, including assets of our defined benefit pension plans, are classified in the fair value hierarchy based on the inputs used for valuation. Assets that are actively traded on an exchange with a quoted price are classified as Level 1. Assets and liabilities that are valued based on quoted prices for similar assets or liabilities in active markets, or standard pricing models using observable inputs are classified as Level 2. As of September 30, 2013, we have no assets or liabilities carried at fair value that are valued using unobservable inputs and, therefore, no assets or liabilities that are classified as Level 3. The sensitivity of fair value estimates is immaterial relative to the assets and liabilities measured at fair value, as well as to our total equity, as of September 30, 2013.

### ***Pensions and Other Postretirement Benefits***

We maintain both defined benefit and defined contribution plans for our employees. In addition, we provide certain postretirement health care and life insurance benefits for our retired employees. Plan obligations and annual expense calculations are based on a number of key assumptions. The assumptions, which are specific for each of our U.S. and foreign plans, are related to both the assets we hold to fund our plans (where applicable) and the characteristics of the benefits that will ultimately be provided to our employees. The most significant assumptions relative to our plan assets include the anticipated rates of return on these assets. Assumptions relative to our pension obligations are more varied; they include estimated discount rates, rates of compensation increases for employees, mortality, employee turnover and other related demographic data. Projected health care and life insurance obligations also rely on the above mentioned demographic assumptions and assumptions surrounding health care cost trends. Actual results that differ from the assumptions are generally accumulated and amortized over future periods and could therefore affect the recognized expense and recorded obligation in such future periods. However, cash flow requirements may be different from the amounts of expense that are recorded in the consolidated financial statements. In fiscal 2012, we incurred curtailment and settlement gains and losses in the U.S. and foreign employee benefit plans as a result of the sale of the Supermetals Business and the freezing of two defined benefit plans in foreign affiliates. In the third quarter of fiscal 2013, we approved the freezing of our U.S. pension plans as of January 1, 2014. This resulted in the remeasurement of the plan assets and liabilities. The remeasurement decreased the net pension obligation of these plans, which is included within Other Liabilities on the Consolidated Balance Sheets, by \$19 million and increased Accumulated other comprehensive income by \$13 million, net of tax. The impact to the Company's Net periodic benefit cost was immaterial.

### ***Self-Insurance Reserves***

We are partially self-insured for certain third-party liabilities globally, as well as workers' compensation and employee medical benefits in the United States. The third-party and workers' compensation liabilities are managed through a wholly-owned insurance captive and the related liabilities are included in the consolidated financial statements. The employee medical obligations are managed by a third-party provider and the related liabilities are included in the consolidated financial statements. To limit our potential liabilities for these risks in the U.S., however, we purchase insurance from third-parties

that provides individual and aggregate stop loss protection. The aggregate self-insured liability in fiscal 2013 for combined U.S. third party liabilities and U.S. workers' compensation is \$6 million, and the retention for medical costs in the United States is at most \$225,000 per person per annum. We have accrued amounts equal to the actuarially determined future liabilities. We determine the actuarial assumptions in collaboration with third-party actuaries, based on historical information along with certain assumptions about future events. Changes in assumptions for such matters as legal actions, medical costs and changes in actual experience could cause these estimates to change and impact our earnings and cash flows.

### ***Asset Retirement Obligations***

We account for asset retirement obligations by estimating incremental costs for special handling, removal and disposal costs of materials that may or will give rise to conditional asset retirement obligations ("AROs") and then discount the expected costs back to the current year using a credit adjusted risk-free rate. ARO liabilities and costs are recognized when the timing and/or settlement can be reasonably estimated. If it is unclear when, or if, an ARO will be triggered, we use probability weightings for possible timing scenarios to determine the amounts that should be recognized in our financial statements.

The estimation of AROs is subject to a number of inherent uncertainties including: (a) the timing of when any ARO may be incurred, (b) the ability to accurately identify and reasonably estimate the costs of all materials that may require special handling or treatment, (c) the ability to assess the relative probability of different scenarios that could give rise to an ARO, and (d) other factors outside our control, including changes in regulations, costs and interest rates.

AROs have not been recognized for certain of our facilities because either the present value of the obligation cannot be reasonably estimated due to an indeterminable facility life or we do not have a legal obligation associated with the retirement of those facilities. In most circumstances where AROs have been recorded, the anticipated cash outflows will likely take place far into the future. Accordingly, actual costs and the timing of such costs may vary significantly from our estimates, which may, in turn, impact our earnings. In general, however, when such estimates change, the impact is spread over future years and thus the impact on any individual year is unlikely to be material.

### ***Litigation and Contingencies***

We are involved in litigation in the ordinary course of business, including personal injury and environmental litigation. After consultation with counsel, as appropriate, we accrue a liability for litigation when it is probable that a liability has been incurred and the amount can be reasonably estimated. The estimated reserves are recorded based on our best estimate of the liability associated with such matters or the low end of the estimated range of liability if we are unable to identify a better estimate within that range. Our best estimate is determined through the evaluation of various information, including claims, settlement offers, demands by government agencies, estimates performed by independent third parties, identification of other responsible parties and an assessment of their ability to contribute, and our prior experience. Litigation is highly uncertain and there is always the possibility of an unusual result in any particular case that may reduce our earnings and cash flows.

The most significant reserves that we have established are for environmental remediation and respirator litigation claims. The amount accrued for environmental matters reflects our assumptions about remediation requirements at the contaminated sites, the nature of the remedies, the outcome of discussions with regulatory agencies and other potentially responsible parties at multi-party sites, and the number and financial viability of other potentially responsible parties. A portion of the reserve for environmental matters is recognized on a discounted basis, which requires the use of an estimated discount rate and estimates of future cash flows associated with the liability. These liabilities can be affected by the availability of new information, changes in the assumptions on which the accruals are based, unanticipated government enforcement action or changes in applicable government laws and regulations, which could result in higher or lower costs.

Our current estimate of the cost of our share of existing and future respirator liability claims is based on facts and circumstances existing at this time and the amount accrued is recognized on a discounted basis. Developments that could affect our estimate include, but are not limited to, (i) significant changes in the number of future claims, (ii) changes in the rate of dismissals without payment of pending silica and non-malignant asbestos claims, (iii) significant changes in the average cost of resolving claims, (iv) significant changes in the legal costs of defending these claims, (v) changes in the nature of claims received, (vi) changes in the law and procedure applicable to these claims, (vii) the financial viability of other parties which contribute to the settlement of respirator claims, (viii) a change in the availability of insurance coverage maintained by the entity from which we acquired the safety respirators products business or the indemnity provided by its former owner, (ix) changes in the allocation of costs among the various parties paying legal and settlement costs, and (x) a determination that the assumptions that were used to estimate our share of liability are no longer reasonable. We cannot determine the impact of these potential developments on our current estimate of our share of liability for these existing and future claims. Accordingly, the actual amount of these liabilities for existing and future claims could be different than the reserved amount. Further, if the timing of our actual payments made for respirator claims differs significantly from our estimated payment schedule, and we determine that we can no longer reasonably predict the timing of such payments, we could then be required to record the reserve amount on an undiscounted basis on our Consolidated Balance Sheets, causing an immediate impact to earnings.

### **Income Taxes**

Our business operations are global in nature, and we are subject to taxes in numerous jurisdictions. Tax laws and tax rates vary substantially in these jurisdictions and are subject to change based on the political and economic climate in those countries. We file our tax returns in accordance with our interpretations of each jurisdiction's tax laws.

Significant judgment is required in determining our worldwide provision for income taxes and recording the related tax assets and liabilities. In the ordinary course of our business, there are operational decisions, transactions, facts and circumstances, and calculations which make the ultimate tax determination uncertain. Furthermore, our tax positions are periodically subject to challenge by taxing authorities throughout the world. We have recorded reserves for taxes and associated interest and penalties that may become payable in future years as a result of audits by tax authorities. Any significant impact as a result of changes in underlying facts, law, tax rates, tax audit, or review could lead to adjustments to our income tax expense, our effective tax rate, and/or our cash flow.

We record benefits for uncertain tax positions based on an assessment of whether the position is more likely than not to be sustained by the taxing authorities. If this threshold is not met, no tax benefit of the uncertain tax position is recognized. If the threshold is met, the tax benefit that is recognized is the largest amount that is greater than 50% likely of being realized upon ultimate settlement. This analysis presumes the taxing authorities' full knowledge of the positions taken and all relevant facts, but does not consider the time value of money. We also accrue for interest and penalties on these uncertain tax positions and include such charges in the income tax provision in the Consolidated Statements of Operations.

Additionally, we have established valuation allowances against a variety of deferred tax assets, including net operating loss carry-forwards, foreign tax credits, and other income tax credits. Valuation allowances take into consideration our ability to use these deferred tax assets and reduce the value of such items to the amount that is deemed more likely than not to be recoverable. Our ability to utilize these deferred tax assets is dependent on achieving our forecast of future taxable operating income over an extended period of time. We review our forecast in relation to actual results and expected trends on a quarterly basis. Failure to achieve our operating income targets may change our assessment regarding the recoverability of our net deferred tax assets and such change could result in a valuation allowance being recorded against some or all of our net deferred tax assets. An increase in a valuation allowance would

result in additional income tax expense, while a release of valuation allowances in periods when these tax attributes become realizable would reduce our income tax expense.

### ***Highly Inflationary Environments***

We monitor the currencies of countries in which we operate in order to determine if the country should be considered a highly inflationary environment. If and when a currency is determined to be highly inflationary (cumulative inflation of approximately 100 percent or more over a 3-year period), the functional currency of the affected operation would be changed to our reporting currency, the U.S. dollar. Due to cumulative inflation in Venezuela over a three-year period exceeding 100%, the functional currency of our Venezuelan operating entity is the U.S. dollar.

### ***Restructuring Activities***

Our consolidated financial statements detail specific charges relating to restructuring activities as well as the actual spending that has occurred against the resulting accruals. Our restructuring charges are estimates based on our preliminary assessments of (i) severance and other employee benefits to be granted to employees, which are based on known benefit formulas and identified job grades, (ii) costs to vacate certain facilities and (iii) asset impairments. Because these accruals are estimates, they are subject to change as a result of subsequent information that may come to our attention while executing the restructuring plans. These changes in estimates would then be reflected in our consolidated financial statements.

### ***Significant Accounting Policies***

We have other significant accounting policies that are discussed in Note A of the Notes to our Consolidated Financial Statements in Item 8 below. Certain of these policies include the use of estimates, but do not meet the definition of critical because they generally do not require estimates or judgments that are as difficult or subjective to measure. However, these policies are important to an understanding of the Consolidated Financial Statements.

## **Results of Operations**

### ***Definition of Terms and Non-GAAP Financial Measures***

When discussing our results of operations, we use several terms as described below.

The term “product mix” refers to the various types and grades, or mix, of products sold in a particular business or segment during the period, and the positive or negative impact of that mix on the revenue or profitability of the business or segment.

The term “LIFO” includes two factors: (i) the impact of current inventory costs being recognized immediately in cost of sales under a last-in first-out method, compared to the older costs that would have been included in cost of sales under a first-in first-out method (“cost of sales impact”); and (ii) the impact of reductions in inventory quantities, causing historical inventory costs to flow through COGS (“liquidation impact”).

The discussion under the heading “Provision for Income Taxes and Reconciliation of Effective Tax Rate to Operating Tax Rate” includes a discussion of our “effective tax rate” and our “operating tax rate” and includes a reconciliation of the two rates. Our operating tax rate is a non-GAAP financial measure and should not be considered as an alternative to our effective tax rate, the most comparable GAAP financial measure. In calculating our operating tax rate, we exclude discrete tax items, which include: i) unusual or infrequent items such as a significant release of a valuation allowance, ii) items related to uncertain tax positions such as the tax impact of audit settlements, interest on tax reserves, and the release of tax reserves from the expiration of statutes of limitations, and iii) other discrete tax items, such as the tax



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impact of legislative changes and, on a quarterly basis, the timing of losses in certain jurisdictions and the cumulative rate adjustment, if applicable. We also exclude the tax impact of certain items, as defined below in the discussion of Total segment EBIT, on both operating income and the tax provision. Our definition of the operating tax rate may not be comparable to the definition used by other companies. Management believes that the non-GAAP financial measure is useful supplemental information because it helps our investors compare our tax rate year to year on a consistent basis and understand what our tax rate on current operations would be without the impact of these items which we do not believe are reflective of the underlying business results.

Total segment EBIT is a non-GAAP performance measure, and should not be considered an alternative for Income from continuing operations before taxes, the most directly comparable GAAP financial measure. In calculating Total segment EBIT, we make certain adjustments such as excluding certain items, meaning items that management does not consider representative of our fundamental segment results, as well as items that are not allocated to our business segments, such as interest expense and other corporate costs. Our Chief Operating Decision Maker uses segment EBIT to evaluate the operating results of each segment and to allocate resources to the segments. We believe Total segment EBIT provides useful supplemental information for our investors as it is an important indicator of the Company's operational strength and performance. Investors should consider the limitations associated with this non-GAAP measure, including the potential lack of comparability of this measure from one company to another. A reconciliation of Total segment EBIT to Income from continuing operations before income taxes and equity in earnings of affiliated companies is provided in Note T of our consolidated financial statements.

Cabot is organized into four reportable business segments: Reinforcement Materials, Performance Materials, Advanced Technologies and Purification Solutions. Cabot is also organized for operational purposes into three geographic regions: the Americas; Europe, Middle East and Africa; and Asia Pacific. Discussions of all periods reflect these structures.

Our analysis of financial condition and operating results should be read with our consolidated financial statements and accompanying notes. Unless a calendar year is specified, all references to years in this discussion are to our fiscal years ended September 30.

On July 31, 2012, we purchased all of the issued and outstanding shares of Norit N.V. ("Norit"), the business of which we renamed and report as Purification Solutions. Our results for the twelve month period ended September 30, 2012 include two months of results for Purification Solutions.

### ***Drivers of Demand and Key Factors Affecting Profitability***

Drivers of demand and key factors affecting our profitability differ by segment. In Reinforcement Materials, demand is influenced on a long term basis primarily by: i) the number of vehicle miles driven globally; ii) the number of original equipment and replacement tires produced; and iii) the number of automotive builds. Over the past several years, operating results have been driven by a number of factors, including: i) increases or decreases in sales volumes; ii) changes in raw material costs and our ability to obtain sales price increases for our products commensurate with increases in raw material costs; iii) changes in pricing and product mix; iv) global and regional capacity utilization; v) fixed cost savings achieved through restructuring and other cost saving activities; vi) the growth of our volumes and market position in emerging economies; and vii) capacity management and technology investments, including the impact of energy utilization and yield improvement technologies at our manufacturing facilities.

In Performance Materials, longer term demand is driven primarily by the construction and infrastructure, automotive, electronics and consumer products industries. In recent years, operating results in Performance Materials have been driven by: i) increases or decreases in sales volumes; ii) our ability to deliver differentiated products that drive enhanced performance in customers' applications; iii) our ability to obtain value pricing for this differentiation; and iv) the cost of new capacity.



In Advanced Technologies, drivers of demand are specific to the various businesses. In the Inkjet Colorants Business, demand has been driven by a relative increase of printer platforms using our pigments at both new and existing customers and the broader adoption of inkjet technology in office and commercial printing applications. Demand in the Aerogel Business has been driven by the adoption of aerogel products for oil and gas, daylighting and insulation for building, construction and industrial applications. In the Security Materials Business, demand has been driven principally by the number of security taggant applications incorporating our unique and proprietary particles. In the Elastomer Composites Business, operating results have been influenced by royalties and technology payments related to our patented technology that is used in tire applications. In our Specialty Fluids Business, demand for cesium formate is primarily driven by the level of drilling activity for high pressure oil and gas wells and by the petroleum industry's acceptance of our product as a drilling and completion fluid for this application. Operating results in Advanced Technologies have been influenced by: i) the rate at which we commercialize new technology; ii) our ability to select the highest value opportunities and work with lead users in the appropriate markets; iii) our ability to appropriately size the overall cost platform for the opportunities; iv) the timing of royalty and technology payments in our Elastomer Composites Business; and v) the size, type and duration of drilling jobs in our Specialty Fluids Business.

In Purification Solutions, longer term demand is driven primarily by the demand for activated carbon based solutions for water, gas and air, pharmaceuticals, food and beverages, catalysts and other chemical applications. Operating results in Purification Solutions have been influenced by i) changes in pricing and product mix; ii) industry capacity utilization; iii) the amount of coal-based power generation utilized in the U.S.; and iv) changes in volume in the various applications previously noted.

### **Overview of Results for Fiscal 2013**

During fiscal 2013, profitability decreased compared to fiscal 2012 driven by lower unit margins that resulted from price decreases and a less favorable product mix, and lower volumes.

### **Fiscal 2013 compared to Fiscal 2012 and Fiscal 2012 compared to Fiscal 2011—Consolidated**

#### **Net Sales and other operating revenue and Gross Profit**

	Years ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Net sales and other operating revenues	\$3,463	\$3,300	\$3,102
Gross profit	\$ 636	\$ 648	\$ 558

The \$163 million increase in net sales from fiscal 2012 to fiscal 2013 was due primarily to the addition of Purification Solutions (approximately \$287). The improvement was partially offset by lower prices and a less favorable product mix (combined \$50 million), the unfavorable impact of foreign currency translation (\$50 million), and lower volumes (\$29 million). The \$198 million increase in net sales from fiscal 2011 to fiscal 2012 was driven primarily by higher prices and a favorable product mix (combined \$270 million) and the addition of two months of Purification Solutions sales (approximately \$61 million) partially offset by lower volumes (\$71 million) and the unfavorable effect of foreign currency translation (\$56 million).

Gross profit decreased by \$12 million in fiscal 2013 when compared to fiscal 2012 driven by lower unit margins that resulted from price decreases and a less favorable product mix, and lower volumes. Gross profit increased by \$90 million in fiscal 2012 when compared to fiscal 2011 principally due to higher unit margins driven by the implementation of strategic value pricing and product mix initiatives and benefits from the investments in energy centers and yield technology that more than offset higher raw material costs.

### *Selling and Administrative Expenses*

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Selling and administrative expenses	\$ 299	\$ 285	\$ 249

Selling and administrative expenses increased by \$14 million in fiscal 2013 when compared to fiscal 2012. The comparative increase was principally driven by the addition of Purification Solutions and restructuring-related charges. Selling and administrative expenses increased by \$36 million in fiscal 2012 when compared to fiscal 2011. The comparative increase is principally due to higher professional fees and other costs related to the acquisition and integration of Norit (\$17 million), the inclusion of two months of Purification Solutions operating results (\$5 million), an increase in environmental and legal reserves (\$7 million), including for respirator claims, and spending to support growth across our business.

### *Research and Technical Expenses*

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Research and technical expenses	\$ 74	\$ 73	\$ 66

Research and technical expenses increased \$1 million in fiscal 2013 when compared to fiscal 2012 due to higher expenses related to the addition of Purification Solutions and restructuring-related charges. Research and technical expenses increased \$7 million in fiscal 2012 when compared to fiscal 2011 due to fees for a new technology licensing agreement (\$3 million), the inclusion of two months of Purification Solutions operating results (\$1 million) and higher spending to support business initiatives.

### *Interest and Dividend Income*

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Interest and dividend income	\$ 5	\$ 4	\$ 2

Interest and dividend income increased \$1 million in fiscal 2013 when compared to fiscal 2012 due to higher interest earned on cash balances. Interest and dividend income increased \$2 million in fiscal 2012 compared to fiscal 2011 primarily due to interest income related to the notes receivable for the sale of the Supermetals business.

### *Interest Expense*

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Interest expense	\$ 62	\$ 46	\$ 39

Interest expense increased \$16 million in fiscal 2013 as compared to fiscal 2012 and increased \$7 million in fiscal 2012 as compared to fiscal 2011. The increase in both periods was due to a higher debt balance as a result of the financing of the Norit acquisition, which was partially offset by lower interest expense related to the use of commercial paper in fiscal 2013.

### *Other Expense*

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Other expense	\$ 1	\$ 3	\$ 3

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Other expense balances are driven by foreign currency movements, including gains or losses on foreign currency transactions and the remeasurement of our foreign currency denominated debt and related derivatives. Other expense decreased by \$2 million in fiscal 2013 compared to fiscal 2012 due to a favorable comparison of foreign currency movements. Other expense in fiscal 2012 was consistent with fiscal 2011.

*Provision for Income Taxes and Reconciliation of Effective Tax Rate to Operating Tax Rate*

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Provision for income taxes	\$ 58	\$ 55	\$ 6
Effective tax rate	28%	22%	3%
Impact of discrete tax items:			
Unusual or infrequent items	(3%)	3%	12%
Items related to uncertain tax positions	2%	1%	7%
Other discrete tax items	1%	—	1%
Impact of certain items	(2%)	(1%)	(1%)
Operating tax rate	26%	25%	22%

The provision for income taxes was \$58 million for fiscal 2013, resulting in an effective tax rate of 28%. The increase in the effective tax rate for fiscal 2013 is due to a change in our geographic mix of earnings and an increase in losses from jurisdictions for which no benefit can be recognized. This amount included net discrete charges of \$3 million composed of \$13 million foreign currency related charge, offset by \$10 million of net tax benefit related to tax settlements, renewal of the U.S. research and experimentation credit, and other miscellaneous tax items in the tax provision. The operating tax rate for fiscal 2013 was 26%.

The provision for income taxes was \$55 million for fiscal 2012, resulting in an effective tax rate of 22%. This amount included net discrete tax benefits of \$8 million from the release of a Cabot state tax valuation allowance as a result of the Norit acquisition and from settlements and miscellaneous tax items. The operating tax rate for fiscal 2012 was 25%.

The provision for income taxes was \$6 million for fiscal 2011, resulting in an effective tax rate of 3%. This amount included discrete tax benefits of \$38 million comprised of: i) \$24 million related to the repatriation of high tax income in response to changes in U.S. tax legislation; ii) \$10 million from audit settlements; iii) \$2 million from the recognition of investment tax credits in China; and iv) \$2 million from the renewal of the U.S. research and experimentation credit. The operating tax rate for fiscal 2011 was 22%.

Our anticipated operating tax rate for fiscal 2014 is between 26% and 28%. The IRS has not yet commenced the audit of our 2007 and later tax years and certain Cabot subsidiaries are under audit in a number of jurisdictions outside of the U.S. It is possible that some of these audits will be resolved in fiscal 2014 and could impact our anticipated effective tax rate. We have filed our tax returns in accordance with the tax laws in each jurisdiction and maintain tax reserves for uncertain tax positions.

In September 2013, the U.S. Department of the Treasury and the Internal Revenue Service released final regulations relating to guidance on applying tax rules to amounts paid to acquire, produce or improve tangible personal property as well as rules for materials and supplies. Cabot does not anticipate that these regulations will have a material impact on the Company's consolidated results of operations, cash flows or financial position.

*Equity in Earnings of Affiliated Companies and Net Income Attributable to Noncontrolling Interest, net of tax*

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Equity in earnings of affiliated companies, net of tax	\$ 11	\$ 11	\$ 8
Net income attributable to noncontrolling interests, net of tax	\$ 7	\$ 18	\$ 22

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Equity in earnings of affiliated companies, net of tax, in fiscal 2013 is consistent with fiscal 2012. Equity in earnings of affiliated companies, net of tax, increased \$3 million in fiscal 2012 as compared to fiscal 2011 as earnings from our affiliates improved.

For fiscal 2013, net income attributable to noncontrolling interests, net of tax, decreased \$11 million due to charges associated with our restructuring in Malaysia and lower profitability of our joint ventures in China. For fiscal 2012, net income attributable to noncontrolling interests, net of tax, decreased \$4 million as compared to fiscal 2011. The decrease was due to a decrease in profitability of our joint ventures in Malaysia, China and Indonesia.

*Income from Discontinued Operations, net of tax*

During the second quarter of fiscal 2012, we divested our Supermetals Business and, accordingly, for all periods we have classified the income or loss from the Supermetals Business as Income from discontinued operations, net of tax. Income from discontinued operations, net of tax, decreased \$203 million in fiscal 2013 when compared to fiscal 2012 because we recognized the gain on the sale of the business in fiscal 2012 and no longer operated the business in fiscal 2013. Income from discontinued operations, net of tax, increased \$152 million in fiscal 2012 when compared to fiscal 2011 driven by the gain on the sale of the Supermetals Business.

*Net Income Attributable to Cabot Corporation*

In fiscal 2013, we reported net income of \$153 million (\$2.36 per diluted common share). This is compared to net income of \$388 million (\$5.99 per diluted common share) in fiscal 2012 and net income of \$236 million (\$3.57 per diluted common share) in fiscal 2011.

**Fiscal 2013 compared to Fiscal 2012 and Fiscal 2012 compared to Fiscal 2011—By Business Segment**

Total segment EBIT, certain items, other unallocated items and Income from continuing operations before income taxes and equity in earnings of affiliated companies for fiscal 2013, 2012 and 2011 are set forth in the table below. The details of certain items and other unallocated items are shown below and in Note T of our Consolidated Financial Statements.

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Total segment EBIT	\$ 384	\$ 409	\$ 354
Certain items	(56)	(51)	(19)
Other unallocated items	(123)	(113)	(132)
Income from continuing operations before income taxes and equity in earnings of affiliated companies	<u>\$ 205</u>	<u>\$ 245</u>	<u>\$ 203</u>

In fiscal 2013, total segment EBIT decreased by \$25 million when compared to fiscal 2012. The decrease was principally driven by lower volumes (\$8 million), lower unit margins (\$8 million) that resulted from price decreases and a less favorable product mix, and the unfavorable impact of foreign currency translation (\$7 million).

In fiscal 2012, total segment EBIT increased by \$55 million when compared to fiscal 2011. The increase was principally driven by higher unit margins (\$94 million) driven by the implementation of strategic value pricing and product mix initiatives and benefits from the investments in energy centers and yield technology that more than offset higher raw material costs, the inclusion of two months of Purification Solutions operating results (\$5 million), and the favorable effect of foreign currency translation (\$11 million). The results were partially offset by lower volumes (\$8 million) in Reinforcement Materials

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and higher fixed costs from the startup of new capacity in Reinforcement Materials and Performance Materials and spending to support our growth initiatives (\$51 million combined).

*Certain Items:*

Details of the certain items for fiscal 2013, 2012, and 2011 are as follows:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Global restructuring activities	\$ (37)	\$ (17)	\$ (18)
Acquisition and integration-related charges	(21)	(26)	—
Environmental and legal reserves	(1)	(4)	(1)
Reserve for respirator claims	—	(4)	—
Foreign currency gain on revaluations	3	—	—
Total certain items, pre-tax	<u>\$ (56)</u>	<u>\$ (51)</u>	<u>\$ (19)</u>
<b>Tax-related certain items</b>			
Tax impact of certain items	\$ 10	\$ 9	\$ 3
Tax impact of certain foreign exchange (losses) gains	(12)	1	—
Tax impact of non-deductible interest expense	—	(2)	—
Discrete tax items	11	11	39
Total tax-related certain items	9	19	42
Total certain items after tax	<u>\$ (47)</u>	<u>\$ (32)</u>	<u>\$ 23</u>

Certain items for fiscal 2013 include charges related to restructuring initiatives, acquisition and integration-related charges and tax certain items. Details of restructuring activities are included in Note O of the Consolidated Financial Statements. Acquisition and integration-related charges include legal and professional fees, the incremental value of inventory as a result of purchase accounting adjustments, and other expenses related to the completion of the acquisition and the integration of Norit. Tax certain items include discrete tax items, which are unusual and infrequent and the tax impact of certain foreign exchange (losses) gains.

*Other Unallocated Items:*

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Interest expense	\$ (62)	\$ (46)	\$ (39)
Equity in earnings of affiliated companies, net of tax	(11)	(11)	(8)
Unallocated corporate costs	(49)	(56)	(53)
General unallocated expense	(1)	—	(32)
Total other unallocated items	<u>\$ (123)</u>	<u>\$ (113)</u>	<u>\$ (132)</u>

Other unallocated items include Interest expense, Equity in earnings of affiliated companies, Unallocated corporate costs, and General unallocated expense. The balances of unallocated corporate costs are primarily comprised of expenditures related to managing a public company that are not allocated to the segments and corporate business development costs related to new technology efforts. The balances of General unallocated expense primarily include foreign currency transaction gains (losses), interest income, dividend income, the elimination of profit related to unearned revenue, and the COGS impact of LIFO accounting.

In fiscal 2013, costs from total other unallocated items increased by \$10 million when compared to fiscal 2012. The increase was primarily driven by a \$16 million increase in Interest expense due to a higher

debt balance as a result of the financing of the Norit acquisition. The increase was partially offset by a \$7 million decrease in Unallocated corporate costs due to lower expenses related to incentive compensation.

In fiscal 2012, costs from total other unallocated items decreased by \$19 million when compared to fiscal 2011. The decrease was primarily driven by a \$32 million decrease in General unallocated expense due to i) the COGS impact of LIFO accounting from changes in carbon black raw material costs that resulted in a favorable comparison (\$18 million); ii) the favorable comparison of foreign exchange currency transactions (\$4 million); iii) the absence in fiscal 2012 of certain corporate pension and currency charges that occurred in fiscal 2011 (\$2 million); and (iv) the impact of a change in the net worth tax in Colombia in fiscal 2011 that did not repeat in fiscal 2012 (\$3 million). These decreases were partially offset by an increase in Unallocated corporate costs driven by fees for a new technology licensing agreement (\$3 million).

### Reinforcement Materials

Sales and EBIT for Reinforcement Materials for fiscal 2013, 2012 and 2011 are as follows:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Reinforcement Materials Sales	\$1,902	\$2,019	\$1,952
Reinforcement Materials EBIT	\$ 188	\$ 227	\$ 183

In fiscal 2013, sales in Reinforcement Materials decreased by \$117 million when compared to fiscal 2012. The decrease was principally driven by a less favorable price and product mix (combined \$54 million), the unfavorable impact of foreign currency translation (\$41 million), and 1% lower volumes (\$23 million). In fiscal 2012, sales in Reinforcement Materials increased by \$67 million when compared to fiscal 2011. The increase was principally driven by higher prices and a favorable product mix (combined \$225 million), partially offset by 6% lower volumes (\$123 million) and the unfavorable impact of foreign currency translation (\$35 million).

In fiscal 2013, Reinforcement Materials EBIT decreased by \$39 million when compared to fiscal 2012 driven principally by lower unit margins (\$27 million) that resulted from lower prices and a less favorable product mix, lower volumes (\$7 million), and higher fixed manufacturing costs (\$7 million) primarily from higher utility costs. In fiscal 2012, Reinforcement Materials EBIT increased by \$44 million when compared to fiscal 2011 driven principally by higher unit margins (\$91 million), with higher pricing and a favorable product mix more than offsetting higher raw material costs, and the favorable impact of foreign currency translation (\$10 million). The impact of higher unit margins more than offset lower volumes (\$39 million) and the effect of higher fixed manufacturing costs (\$17 million).

### Performance Materials

Sales and EBIT for Performance Materials for fiscal 2013, 2012 and 2011 are as follows:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Specialty Carbons and Compounds Sales	\$622	\$664	\$626
Fumed Metal Oxides Sales	282	250	254
Performance Materials Sales	\$904	\$914	\$880
Performance Materials EBIT	\$132	\$128	\$140

In fiscal 2013, sales in Performance Materials decreased \$10 million when compared to fiscal 2012 due to a less favorable price and product mix (combined \$9 million). During fiscal 2013, volumes in

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Specialty Carbons and Compounds decreased by 5% and volumes in Fumed Metal Oxides increased by 14%. In fiscal 2012, sales in Performance Materials increased \$34 million when compared to fiscal 2011 due to higher prices and a favorable product mix (combined \$34 million), and the impact of higher volumes (\$23 million), partially offset by the unfavorable impact of foreign currency translation (\$22 million). During fiscal 2012, volumes in Specialty Carbons and Compounds increased by 3% and volumes in Fumed Metal Oxides increased by 2%.

In fiscal 2013, EBIT in Performance Materials was \$4 million higher when compared to fiscal 2012 due to higher volumes (\$11 million) driven by an increase in Fumed Metal Oxides. The higher volumes were partially offset by a less favorable price and product mix (combined \$2 million) and higher costs associated with the reduction of inventory levels (\$8 million). In fiscal 2012, EBIT in Performance Materials was \$12 million lower when compared to fiscal 2011 driven by higher fixed manufacturing costs from new capacity in China and higher segment management costs (\$23 million combined). This decrease was partially offset by higher volumes (\$10 million) and improved unit margins (\$2 million) from higher pricing and a favorable product mix that more than offset higher raw material costs.

### **Advanced Technologies**

Sales and EBIT for Advanced Technologies for fiscal 2013, 2012 and 2011 are as follows:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Inkjet Colorants	\$ 64	\$ 66	\$ 65
Aerogel	21	18	24
Security Materials	7	9	11
Elastomer Composites	29	23	17
Specialty Fluids	101	94	69
Advanced Technologies Sales	<u>\$222</u>	<u>\$210</u>	<u>\$186</u>
Advanced Technologies EBIT	<u>\$ 68</u>	<u>\$ 49</u>	<u>\$ 31</u>

Sales in Advanced Technologies increased by \$12 million in fiscal 2013 when compared to fiscal 2012. The increase is primarily due to higher pricing and a favorable product mix (\$15 million) partially offset by unfavorable foreign currency translation (\$3 million). Higher royalties and technology payments in the Elastomer Composites Business offset lower volumes in the segment. Sales in Advanced Technologies increased by \$24 million in fiscal 2012 when compared to fiscal 2011. The increase is primarily due to higher volumes and higher pricing in the Specialty Fluids Business.

EBIT in Advanced Technologies increased by \$19 million in fiscal 2013 when compared to fiscal 2012. The increase was driven by cost savings from restructuring activities in the segment (\$10 million) and higher royalties and technology payments in the Elastomer Composites Business (\$9 million). Higher prices and a favorable product mix were largely offset by lower volumes. EBIT in Advanced Technologies increased by \$18 million in fiscal 2012 when compared to fiscal 2011. The increase was driven by higher volumes (\$21 million) in the Specialty Fluids, Inkjet Colorants and Elastomer Composites Businesses partially offset by lower volumes in the Aerogel Business. Higher fixed manufacturing costs in the Elastomer Composites Business and from new capacity in the Inkjet Colorants Business (\$4 million) partially offset the higher volumes.

## Purification Solutions

Sales and EBIT for Purification Solutions for fiscal 2013, 2012 and 2011 are as follows:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Purification Solutions Sales	\$348	\$ 61	\$N/A
Purification Solutions EBIT	\$ (4)	\$ 5	\$N/A

The acquisition of Norit was completed on July 31, 2012. Sales in Purification Solutions increased by \$287 million in fiscal 2013 when compared to fiscal 2012 because our results for the twelve month period ended September 30, 2012 included two months of results.

EBIT in Purification Solutions decreased by \$9 million in fiscal 2013 when compared to fiscal 2012. During fiscal 2013, the business has experienced lower volumes and pricing in the gas and air purification end market. In addition, the segment has incurred higher costs associated with plant unit outages, the reduction of inventory levels and the allocation of certain functional and indirect costs.

## Cash Flows and Liquidity

### Overview

Our liquidity position, as measured by cash and cash equivalents plus borrowing availability, decreased by \$77 million during fiscal 2013. The decrease was attributable to cash used to pay down debt partially offset by cash provided by lower working capital. At September 30, 2013, we had cash and cash equivalents of \$95 million, and current availability under our revolving credit agreement of approximately \$508 million. Our revolving credit agreement contains affirmative, negative and financial covenants and events of default customary for financings of this type. The financial covenants in the revolving credit agreement include interest coverage, debt-to-EBITDA and subsidiary debt to total capitalization ratios. As of September 30, 2013, we were in compliance with all applicable covenants.

We generally manage our cash and debt on a global basis to provide for working capital requirements as needed by region or site. Cash and debt are generally denominated in the local currency of the subsidiary holding the assets or liabilities, except where there are operational cash flow reasons to hold non-functional currency or debt. As of September 30, 2013, our U.S. dollar cash and cash equivalent holdings by region were: Asia Pacific \$36 million, Europe \$28 million, and the Americas \$31 million, which included \$5 million in the U.S.

In January 2013, we initiated a commercial paper program allowing us to issue notes of various tenors up to 364 days. To date the interest on these notes has been lower than the interest that we would have paid on our borrowings under our revolving credit agreement. The commercial paper program is backed by our committed revolving credit facility, and the aggregate borrowings under both the commercial paper program and revolving credit agreement cannot exceed the \$750 million limit on the revolving credit agreement.

We completed the acquisition of the remaining 60 percent common stock equity of our Mexican carbon black manufacturing joint venture, NHUMO, S.A.P.I. de C.V. on November 15, 2013. At the closing, we paid approximately \$80 million in cash and received approximately \$14 million in cash as a special cash dividend from NHUMO.

We anticipate sufficient liquidity from (i) cash on hand; (ii) cash flows from operating activities; and (iii) cash available from our revolving credit agreement and our commercial paper program to meet our operational and capital investment needs and financial obligations for the foreseeable future. Our liquidity derived from cash flows from operations is, to a large degree, predicated on our ability to collect our receivables in a timely manner, the cost of our raw materials, and our ability to manage inventory levels.



### *Discontinued Operations*

Our Consolidated Statements of Cash Flows have been presented to include discontinued operations with continuing operations. Therefore, unless noted otherwise, the following discussion of our cash flows and liquidity position include both continuing and discontinued operations.

In January 2012, we completed the sale of our Supermetals Business, which we classified as discontinued operations beginning in the fourth quarter of fiscal 2011 when we entered into the sale and purchase agreement for its sale. In connection with the sale, we received \$175 million on the closing date and notes for additional minimum consideration totaling approximately \$277 million payable at various dates through the second quarter of fiscal 2014. Through September 30, 2013, we have received \$62 million under the notes.

The following discussion of the changes in our cash balance refers to the various sections of our Consolidated Statements of Cash Flows.

### **Cash Flows from Operating Activities**

Cash generated by operating activities, which consists of net income adjusted for the various non-cash items included in income, changes in working capital and changes in certain other balance sheet accounts, totaled \$419 million in fiscal 2013. Operating activities provided \$415 million and \$195 million in fiscal 2012 and 2011, respectively.

Cash generated from operating activities in fiscal 2013 was driven primarily by net income of \$160 million plus \$190 million of depreciation and amortization and a decrease in working capital. The increase in fiscal 2013 depreciation and amortization when compared to fiscal 2012 was driven primarily by higher amortization of intangible assets related to the fiscal 2012 acquisition of Norit. Our fiscal 2013 working capital decrease when compared to fiscal 2012 was primarily driven by lower Accounts receivable and lower Inventories partially offset by lower Accounts payable and accrued liabilities.

Cash generated from operating activities in fiscal 2012 was driven primarily by net income of \$406 million plus \$154 million of depreciation and amortization and a decrease in working capital. Our fiscal 2012 working capital decrease when compared to fiscal 2011 was primarily driven by higher Accounts payable and accrued liabilities partially offset by higher Inventories.

Cash generated from operating activities in fiscal 2011 was driven primarily by net income of \$258 million plus \$142 million of depreciation and amortization and \$19 million of non-cash compensation, partially offset by a net increase in working capital. Our working capital increase in fiscal 2011 was driven principally by higher pricing and raw material costs when compared to fiscal 2010 and is comprised of higher Accounts receivable and Inventories, offset by an increase in Accounts payable and accrued liabilities. Despite increased revenue, operating cash flows decreased in fiscal 2011 as a result of the corresponding growth of Inventories, Accounts receivable, and Accounts payable.

In addition to the working capital movements noted above, the following other elements of operations have had a bearing on operating cash flows:

**Restructurings**—As of September 30, 2013, we had \$10 million of total restructuring costs in accrued expenses in the consolidated balance sheet related to our global restructuring activities. We made cash payments of \$11 million during fiscal 2013 related to these restructuring plans. We expect to make cash payments related to these restructuring activities of approximately \$20 million in fiscal 2014 and thereafter (which includes the \$10 million already accrued in the consolidated balance sheet as of September 30, 2013). We may receive cash in the future from the sale of certain assets and land relating to restructured sites, which is not included in these amounts.

**Environmental Reserves and Litigation Matters**—We have recorded a \$5 million reserve on both a discounted and undiscounted basis as of September 30, 2013 for environmental remediation costs at

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various sites. These sites are primarily associated with businesses divested in prior years. We anticipate that the expenditures at these sites will be made over a number of years, and will not be concentrated in any one year. Additionally, as of September 30, 2013 we have recorded an \$11 million reserve on a discounted basis (\$15 million on an undiscounted basis) for respirator claims. These expenditures will be incurred over many years. We also have other litigation costs arising in the ordinary course of business.

The following table represents the estimated future undiscounted payments related to our environmental and respirator reserves.

	Future Payments by Fiscal Year						Total
	2014	2015	2016	2017	2018	Thereafter	
	(Dollars in millions)						
Environmental	\$ 2	\$ 1	\$ 1	\$ —	\$ —	\$ 1	\$ 5
Litigation—respirator	2	2	1	1	1	8	15
Total	<u>\$ 4</u>	<u>\$ 3</u>	<u>\$ 2</u>	<u>\$ 1</u>	<u>\$ 1</u>	<u>\$ 9</u>	<u>\$ 20</u>

### ***Cash Flows from Investing Activities***

In fiscal 2013, investing activities consumed \$227 million of cash and were primarily driven by capital expenditures of \$264 million partially offset by cash received from the notes receivable from the sale of the Supermetals business (\$40 million in total, comprised of \$39 million of principal and \$1 million of interest). For fiscal 2012, cash flows from investing activities were primarily driven by cash paid for the acquisition of Norit (\$1.1 billion) and capital expenditures (\$281 million). Partially offsetting these decreases were proceeds from the sale of our divested Supermetals business and payments on notes relating to the sale (totaling \$204 million).

Capital expenditures totaled \$264 million, \$281 million and \$230 million in fiscal 2013, 2012 and 2011, respectively. In each of these years, expenditures were primarily related to expansion of our manufacturing footprint in the Asia Pacific region, sustaining and compliance capital projects at our operating facilities, investments in energy recovery technology, and capital spending required for process technology and product differentiation projects.

Capital expenditures for fiscal 2014 are expected to be between \$200 million and \$250 million. Our planned capital spending program for fiscal 2014 is primarily for sustaining and compliance capital projects at our operating facilities, investments in energy related projects, and site-development initiatives.

### ***Cash Flows from Financing Activities***

Financing activities consumed \$206 million of cash in fiscal 2013 compared to providing \$606 million of cash in fiscal 2012 and consuming \$72 million in fiscal 2011. During fiscal 2013, we received net inflows of \$241 million from our commercial paper program, and used the majority of the proceeds to repay \$189 million on our revolving credit agreement. In fiscal 2013, our overall debt balance decreased by \$123 million primarily driven by cash generated from operations which was used to repay short term debt offset by dividend payments to our stockholders of \$51 million. Long term debt of \$175 million with an interest rate of 5.25% matured during fiscal 2013, and was repaid using our commercial paper program. In addition, derivatives related to this debt were settled at the time of maturity and consumed \$31 million of cash. As of September 30, 2013 the outstanding balance under our commercial paper program had a weighted average interest rate of 0.32%. In fiscal 2012, our overall debt balance increased by \$693 million primarily relating to financing our acquisition of Norit. The cash provided by this financing was partially offset by cash used to purchase shares of our common stock on the open market of \$36 million and to make dividend payments to our stockholders of \$49 million. In fiscal 2011, financing cash flows were primarily driven by changes in debt levels and dividend payments. In addition, in fiscal 2011 we repurchased approximately 1.6 million shares of our common stock on the open market for a purchase price totaling \$59 million.

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Notes receivable for the sale of the Supermetals business of \$215 million are due by March 31, 2014.

*Debt*

The following table provides a summary of our outstanding debt:

	September 30	
	2013	2012
	(Dollars in millions)	
Notes payable	\$ 264	\$ 62
Variable rate debt	47	200
Interest rate swaps—fixed to variable <sup>(1)</sup>	—	2
Total variable rate debt	311	264
Fixed rate debt, net of discount	971	1,143
Interest rate swaps—fixed to variable <sup>(1)</sup>	—	(2)
Total fixed rate debt	971	1,141
Unamortized bond discounts	(2)	(2)
Capital leases	18	16
Total debt	\$ 1,298	\$ 1,419

<sup>(1)</sup> The face value of debt swapped from fixed rate to variable rate using interest rate swaps is presented above in order to view our effective fixed and variable debt balances.

In fiscal 2013 the decrease in our net debt balance was primarily driven by the repayment of short-term debt from cash generated from operations. In January 2013, we initiated a commercial paper program. The majority of proceeds raised were used to repay borrowings under our revolving credit agreement, which had a balance of \$189 million, included within Long-term debt in the Consolidated Balance Sheets as of September 30, 2012. The outstanding balance of commercial paper of \$241 million as of September 30, 2013 is included within the Notes payable caption on the Consolidated Balance Sheets. In fiscal 2012, our net debt balance increased by \$693 million, primarily to finance the purchase of Norit. In fiscal 2011, net proceeds from certain short term financing arrangements totaled \$56 million, offset by long-term debt repayments of \$21 million. We had \$508 million of availability under our credit agreement at September 30, 2013.

Our long-term total debt, of which \$14 million is current, matures at various times as presented in Note I. The weighted-average interest rate on our fixed rate long-term debt was 4.06% as of September 30, 2013. The weighted-average interest rate on variable interest rate long-term debt was 6.58% as of September 30, 2013.

At September 30, 2013, we have provided standby letters of credit and bank guarantees totaling \$10 million, which expire throughout fiscal 2014.

*Share repurchases*

During fiscal 2012, we repurchased approximately 1.1 million shares of our common stock on the open market for an aggregate purchase price of \$36 million. We did not make any repurchases on the open market in fiscal 2013. As of September 30, 2013, we had approximately 1.6 million shares available for repurchase under the Board of Directors' share repurchase authorization.

*Dividend payments*

In fiscal 2013, 2012 and 2011, we paid cash dividends on our common stock of \$0.80, \$0.76 and \$0.72 per share, respectively. These cash dividend payments totaled \$51 million in fiscal 2013, \$49 million in fiscal 2012, and \$47 million in fiscal 2011.

**Venezuela**

We own 49% of an operating affiliate in Venezuela, which is accounted for as an equity affiliate, through wholly owned subsidiaries that carry the investment and receive its dividends. As of September 30, 2013, these subsidiaries carried the operating affiliate investment of \$25 million and held 20 million bolivars (\$3 million) in cash.

In February 2013, the Venezuelan government announced a devaluation of the bolivar from 4.3 bolivars to the U.S. dollar (B/\$) to 6.3 B/\$. Accordingly, we remeasured the bolivar denominated monetary accounts in our wholly owned subsidiaries at the new rate, resulting in the recognition of a \$2 million loss in the second quarter of fiscal 2013 through other expense within the Consolidated Statements of Operations. In fiscal 2013, we recognized a tax benefit of \$1 million from a reduction in the deferred tax liability due to the impact of the devaluation of the bolivar on unremitted earnings. The operating affiliate recognized a \$1 million loss during fiscal year 2013 as a result of the remeasurement of monetary assets and liabilities in bolivars and a charge of \$1 million from the tax impact of the currency devaluation mainly on U.S. dollar and Euro denominated cash and receivable balances. Our share of these combined losses was approximately \$1 million, which was included within the Equity in earnings of affiliated companies, net of tax line of the Consolidated Statements of Operations for fiscal year 2013.

As a result of the currency devaluation, we performed an impairment analysis on our equity investment in Venezuela during the second quarter of fiscal 2013 using the discounted cash flow model to determine its fair value. We determined that there was no impairment to the carrying value of our equity investment. We continue to closely monitor developments in Venezuela and their potential impact on the recoverability of our equity affiliate investment.

During fiscal 2013 and 2012, the operating affiliate declared dividends of 15 million bolivars (\$3 million) and 27 million bolivars (\$6 million), respectively, to our wholly owned subsidiaries, which were paid in U.S. dollars and repatriated.

The Venezuelan bolivars held by our wholly owned subsidiaries may only be exchanged for foreign currencies through certain Venezuelan government controlled channels. The channels available are the Venezuelan central bank ("CADIVI"), and Venezuelan government and government-backed bond offerings. The bond offerings use a bidding process, where companies and individuals requiring U.S. dollars place a request for a fixed sum, and CADIVI then determines how to allocate the pool of U.S. dollars in that issuance. We closely monitor our ability to convert our bolivar holdings into U.S. dollars, as we intend to convert substantially all bolivars held by our wholly owned subsidiaries in Venezuela to U.S. dollars as soon as practical. Any future change in the CADIVI official rate or opening of additional parallel markets could lead us to change the exchange rate and result in gains or losses on the bolivar denominated assets held by our wholly owned subsidiaries and operating affiliate.

**Employee Benefit Plans**

As of September 30, 2013 we had a consolidated pension obligation, net of the fair value of plan assets, of \$151 million, comprised of \$79 million for pension benefit plan liabilities and \$72 million for postretirement benefit plan liabilities.

The \$79 million of unfunded pension benefit plan liabilities is derived as follows:

	<u>U.S.</u>	<u>Foreign</u>	<u>Total</u>
	<u>(Dollars in millions)</u>		
Fair Value of Plan Assets	\$ 155	\$ 375	\$ 530
Benefit Obligation	(170)	(439)	(609)
Unfunded Status	<u>\$ (15)</u>	<u>\$ (64)</u>	<u>\$ (79)</u>

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In fiscal 2013, we made cash contributions totaling approximately \$11 million to our foreign pension benefit plans and less than \$1 million to a U.S. pension plan. For fiscal 2014, we expect to make cash contributions of \$3 million to a U.S. pension plan and approximately \$13 million to our foreign pension plans.

The \$72 million of unfunded postretirement benefit plan liabilities is comprised of \$55 million for our U.S. and \$17 million for our foreign postretirement benefit plans. These postretirement benefit plans provide certain health care and life insurance benefits for retired employees. Typical of such plans, our postretirement plans are unfunded and, therefore, have no plan assets. We fund these plans as claims or insurance premiums come due. In fiscal 2013, we paid postretirement benefits of \$5 million under our U.S. postretirement plans and less than \$1 million under our foreign postretirement plans. For fiscal 2014, we expect to make benefit payments of approximately \$5 million under our U.S. postretirement plans and \$1 million under our foreign postretirement plans.

### **Off-balance sheet arrangements**

We had no material transactions that meet the definition of an off-balance sheet arrangement.

### **Contractual Obligations**

The following table sets forth our long-term contractual obligations, excluding those attributable to our discontinued operations, which are described in greater detail in Note R in the notes to our Consolidated Financial Statements. Variable interest is based on the variable debt outstanding and prevailing variable interest rates as of September 30, 2013, and the table includes the impact of our interest rate swaps that change fixed rates to floating rates.

	Payments Due by Fiscal Year						Total
	2014	2015	2016	2017	2018	Thereafter	
	(Dollars in millions)						
<b>Contractual Obligations<sup>(1)</sup></b>							
Purchase commitments	\$398	\$347	\$270	\$219	\$213	\$ 3,037	\$4,484
Long-term debt <sup>(2)</sup>	12	30	11	300	262	403	1,018
Capital lease obligations	2	2	1	1	1	11	18
Fixed interest on long-term debt	39	39	39	24	19	60	220
Variable interest on long-term debt	3	2	—	—	—	—	5
Operating leases	22	18	14	9	8	29	100
Total	<u>\$476</u>	<u>\$438</u>	<u>\$335</u>	<u>\$553</u>	<u>\$ 503</u>	<u>\$ 3,540</u>	<u>\$ 5,845</u>

<sup>(1)</sup> We are unable to estimate the timing of potential future payments related to our accrual for uncertain tax positions in the amount of \$34 million at September 30, 2013.

<sup>(2)</sup> Payment of long-term debt excludes settlements of cross currency swaps.

### **Purchase commitments**

We have entered into long-term, volume-based purchase agreements primarily for the purchase of raw materials and natural gas with various key suppliers in Reinforcement Materials, Performance Materials, and Purification Solutions. Under certain of these agreements the quantity of material being purchased is fixed, but the price we pay changes as market prices change. For purposes of the table above, current purchase prices have been used to quantify total commitments.

### **Capital Leases**

We have capital lease obligations primarily for certain equipment and buildings. These obligations are payable over the next 18 years.

### *Operating Leases*

We have operating leases primarily comprised of leases for transportation vehicles, warehouse facilities, office space, and machinery and equipment.

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

We are exposed to changes in interest rates and foreign currency exchange rates because we finance certain operations through long- and short-term borrowings and denominate our transactions in a variety of foreign currencies. Changes in these rates may have an impact on future cash flows and earnings. We manage these risks through normal operating and financing activities and, when deemed appropriate, through the use of derivative financial instruments.

We have policies governing our use of derivative instruments, and we do not enter into financial instruments for trading or speculative purposes.

By using derivative instruments, we are subject to credit and market risk. The derivative instruments are recorded to our balance sheet at fair market value and reflect the asset or (liability) position as of September 30, 2013. If a counterparty fails to fulfill its performance obligations under a derivative contract, our exposure will equal the fair value of the derivative. Generally, when the fair value of a derivative contract is positive, the counterparty owes Cabot, thus creating a payment risk for Cabot. We minimize counterparty credit (or repayment) risk by entering into these transactions with major financial institutions of investment grade credit rating. As of September 30, 2013, the counterparties with which we have executed derivatives carried a Standard and Poor's credit rating between A- and AA-, inclusive. Our exposure to market risk is not hedged in a manner that completely eliminates the effects of changing market conditions on earnings or cash flow.

### **Foreign Currency Risk**

Our international operations are subject to certain risks, including currency exchange rate fluctuations and government actions. Foreign currency exposures also relate to assets and liabilities denominated in foreign currencies other than the functional currency of a given subsidiary as well as the risk that currency fluctuations could affect the dollar value of future cash flows generated in foreign currencies. Accordingly, we use short-term forward contracts to minimize the exposure to foreign currency risk. At September 30, 2013, we had \$11 million in net notional foreign currency contracts, which were denominated in the British pound sterling, Chinese renminbi, Czech koruna, and Indian rupee. These forwards had a fair value of less than \$1 million as of September 30, 2013.

In certain situations where we have a long-term commitment denominated in a foreign currency we may enter into appropriate financial instruments in accordance with our risk management policy to hedge future cash flow exposures.

**Item 8. Financial Statements and Supplementary Data**

**INDEX TO FINANCIAL STATEMENTS**

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**CABOT CORPORATION**  
**CONSOLIDATED STATEMENTS OF OPERATIONS**

	Years Ended September 30		
	2013	2012	2011
	(In millions, except per share amounts)		
Net sales and other operating revenues	\$ 3,463	\$ 3,300	\$ 3,102
Cost of sales	2,827	2,652	2,544
Gross profit	636	648	558
Selling and administrative expenses	299	285	249
Research and technical expenses	74	73	66
Income from operations	263	290	243
Interest and dividend income	5	4	2
Interest expense	(62)	(46)	(39)
Other expense	(1)	(3)	(3)
Income from continuing operations before income taxes and equity in earnings of affiliated companies	205	245	203
Provision for income taxes	(58)	(55)	(6)
Equity in earnings of affiliated companies, net of tax of \$6, \$5 and \$5	11	11	8
Income from continuing operations	158	201	205
Income from discontinued operations, net of tax of \$(4), \$116 and \$29	2	205	53
Net income	160	406	258
Net income attributable to noncontrolling interests, net of tax of \$5, \$7 and \$4	7	18	22
Net income attributable to Cabot Corporation	\$ 153	\$ 388	\$ 236
Weighted-average common shares outstanding, in millions:			
Basic	63.8	63.4	64.6
Diluted	64.5	64.2	65.4
Income per common share:			
Basic:			
Income from continuing operations attributable to Cabot Corporation	\$ 2.34	\$ 2.87	\$ 2.80
Income from discontinued operations	0.04	3.20	0.82
Net income attributable to Cabot Corporation	\$ 2.38	\$ 6.07	\$ 3.62
Diluted:			
Income from continuing operations attributable to Cabot Corporation	\$ 2.32	\$ 2.83	\$ 2.77
Income from discontinued operations	0.04	3.16	0.80
Net income attributable to Cabot Corporation	\$ 2.36	\$ 5.99	\$ 3.57
Dividends per common share	\$ 0.80	\$ 0.76	\$ 0.72

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



**CABOT CORPORATION**  
**CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME**

	Years Ended September 30		
	2013	2012	2011
	(In millions)		
Net income	\$ 160	\$ 406	\$ 258
Other comprehensive income (loss), net of tax			
Foreign currency translation adjustment, net of tax of \$(12), \$2, \$3	(10)	3	22
Adjustments to pension and other postretirement benefit plans, net of tax of \$13, \$(9), \$			
-	22	(17)	—
Net change in unrealized gain (loss) on investments, net of tax of \$1,			
\$-, \$-	2	(1)	(1)
Other comprehensive income (loss)	14	(15)	21
Comprehensive income	174	391	279
Net income attributable to noncontrolling interests, net of tax of \$5, \$7, \$4	7	18	22
Noncontrolling interests foreign currency translation adjustment	3	(1)	3
Comprehensive income attributable to noncontrolling interests	10	17	25
Comprehensive income attributable to Cabot Corporation	\$ 164	\$ 374	\$ 254

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

**CABOT CORPORATION**  
**CONSOLIDATED BALANCE SHEETS**  
**ASSETS**

	September 30	
	2013	2012
	(In millions, except share and per share amounts)	
Current assets:		
Cash and cash equivalents	\$ 95	\$ 120
Accounts and notes receivable, net of reserve for doubtful accounts of \$8 and \$5	634	687
Inventories	458	533
Prepaid expenses and other current assets	58	62
Notes receivable from sale of business	214	9
Deferred income taxes	36	32
Total current assets	1,495	1,443
Property, plant and equipment	3,676	3,511
Accumulated depreciation and amortization	(2,071)	(1,959)
Net property, plant and equipment	1,605	1,552
Goodwill	504	480
Equity affiliates	119	115
Intangible assets, net	310	330
Assets held for rent	49	46
Notes receivable from sale of business	—	242
Deferred income taxes	68	94
Other assets	83	97
Total assets	<u>\$ 4,233</u>	<u>\$ 4,399</u>

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

**CABOT CORPORATION**  
**CONSOLIDATED BALANCE SHEETS**  
**LIABILITIES AND STOCKHOLDERS' EQUITY**

	September 30	
	2013	2012
	(In millions, except share and per share amounts)	
Current liabilities:		
Notes payable	\$ 264	\$ 62
Accounts payable and accrued liabilities	534	606
Income taxes payable	30	59
Deferred income taxes	2	7
Current portion of long-term debt	14	185
Total current liabilities	<u>844</u>	<u>919</u>
Long-term debt	1,020	1,172
Deferred income taxes	21	55
Other liabilities	265	314
Commitments and contingencies (Note R)		
Stockholders' equity:		
Preferred stock:		
Authorized: 2,000,000 shares of \$1 par value		
Issued and Outstanding: None and none	—	—
Common stock:		
Authorized: 200,000,000 shares of \$1 par value		
Issued: 64,223,985 and 63,600,928 shares		
Outstanding: 63,970,502 and 63,347,362 shares	64	64
Less cost of 253,483 and 253,565 shares of common treasury stock	(8)	(8)
Additional paid-in capital	39	20
Retained earnings	1,755	1,653
Deferred employee benefits	(2)	(8)
Accumulated other comprehensive income	103	92
Total Cabot Corporation stockholders' equity	<u>1,951</u>	<u>1,813</u>
Noncontrolling interests	132	126
Total stockholders' equity	<u>2,083</u>	<u>1,939</u>
Total liabilities and stockholders' equity	<u>\$ 4,233</u>	<u>\$ 4,399</u>

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

**CABOT CORPORATION**  
**CONSOLIDATED STATEMENT OF CASH FLOWS**

	Years Ended September 30		
	2013	2012	2011
	(In millions)		
<b>Cash Flows from Operating Activities:</b>			
Net income	\$ 160	\$ 406	\$ 258
Adjustments to reconcile net income to cash provided by operating activities:			
Depreciation and amortization	190	154	142
Impairment of assets	16	2	2
Deferred tax provision	(9)	(6)	(25)
Gain on sale of business, net of tax	—	(191)	—
Loss on disposal of property, plant and equipment	2	1	2
Equity in earnings of affiliated companies	(11)	(11)	(8)
Non-cash compensation	16	18	19
Other non-cash charges (income), net	—	3	(3)
Changes in assets and liabilities:			
Accounts and notes receivable	34	6	(111)
Inventories	64	(30)	(79)
Prepaid expenses and other current assets	5	26	(17)
Accounts payable and accrued liabilities	(18)	100	23
Income taxes payable	(29)	(13)	1
Other liabilities	(11)	(38)	(12)
Cash dividends received from equity affiliates	8	6	4
Other	2	(18)	(1)
Cash provided by operating activities	419	415	195
<b>Cash Flows from Investing Activities:</b>			
Additions to property, plant and equipment	(264)	(281)	(230)
Proceeds from sale of business	—	181	—
Receipts from notes receivable from sale of business	39	23	—
Investment in equity affiliate	—	—	(2)
Acquisition of business, net of cash acquired	—	(1,104)	—
Proceeds from sales of property, plant and equipment	—	2	6
Increase in assets held for rent	(2)	(1)	(6)
Cash used in investing activities	(227)	(1,180)	(232)
<b>Cash Flows from Financing Activities:</b>			
Borrowings under financing arrangements	6	84	71
Repayments under financing arrangements	(33)	(88)	(45)
Proceeds from issuance of commercial paper, net	241	—	—
Proceeds from long-term debt, net of issuance costs	117	911	—
Repayments of long-term debt	(442)	(172)	(21)
(Decrease) increase in notes payable, net	(12)	(42)	30
Settlement of derivatives	(31)	—	—
Proceeds from cash contributions received from noncontrolling stockholders	13	4	—
Purchases of common stock	(6)	(36)	(59)
Proceeds from sales of common stock	9	10	11
Cash dividends paid to noncontrolling interests	(17)	(16)	(12)
Cash dividends paid to common stockholders	(51)	(49)	(47)
Cash (used in) provided by financing activities	(206)	606	(72)
Effect of exchange rate changes on cash	(11)	(7)	8
Decrease in cash and cash equivalents	(25)	(166)	(101)
Cash and cash equivalents at beginning of year	120	286	387
Cash and cash equivalents at end of year	\$ 95	\$ 120	\$ 286
Income taxes paid	\$ 84	\$ 73	\$ 64
Interest paid	51	39	34
Non-cash additions to property, plant and equipment	—	4	14

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

**CABOT CORPORATION**  
**CONSOLIDATED STATEMENT OF CHANGES IN STOCKHOLDERS' EQUITY**  
**Years Ended September 30**  
**(In millions, except shares in thousands)**

2011	Common Stock, Net of Treasury Stock		Additional Paid-in Capital	Retained Earnings	Deferred Employee Benefits	Accumulated Other Comprehensive Income	Total Cabot Corporation Stockholders ' Equity	Non- controlling Interests	Total Stockholders ' Equity
	Shares	Cost							
Balance at September 30, 2010	65,370	\$ 63	\$ 46	\$ 1,125	\$ (20)	\$ 88	\$ 1,302	\$ 115	\$ 1,417
Net income attributable to Cabot Corporation				236			236		236
Net Income attributable to non-controlling interests								22	22
Total Other comprehensive income						18	18	3	21
Noncontrolling interest—dividends								(11)	(11)
Cash dividends paid to common stockholders				(47)			(47)		(47)
Issuance of stock under employee compensation plans, net of forfeitures	294	1	7				8		8
Amortization of share-based compensation			17				17		17
Purchase and retirement of common and treasury stock	(1,803)	(1)	(58)				(59)		(59)
Principal payment by Employee Stock Ownership Plan under guaranteed loan					6		6		6
Notes receivable for restricted stock-payments			6				6		6
Balance at September 30, 2011	63,861	\$ 63	\$ 18	\$ 1,314	\$ (14)	\$ 106	\$ 1,487	\$ 129	\$ 1,616

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

**CABOT CORPORATION**  
**CONSOLIDATED STATEMENT OF CHANGES IN STOCKHOLDERS' EQUITY**  
**Years Ended September 30**  
**(In millions, except shares in thousands)**

2012	Common Stock, Net of Treasury Stock		Additional Paid-in Capital	Retained Earnings	Deferred Employee Benefits	Accumulated Other Comprehensive Income	Total Cabot Corporation Stockholders ' Equity	Non- controlling Interests	Total Stockholders ' Equity
	Shares	Cost							
Balance at September 30, 2011	63,861	\$ 63	\$ 18	\$ 1,314	\$ (14)	\$ 106	\$ 1,487	\$ 129	\$ 1,616
Net income attributable to Cabot Corporation				388			388		388
Net Income attributable to non-controlling interests								18	18
Total Other comprehensive income						(14)	(14)	(1)	(15)
Noncontrolling interest—other								4	4
Noncontrolling interest—dividends								(24)	(24)
Cash dividends paid to common stockholders				(49)			(49)		(49)
Issuance of stock under employee compensation plans, net of forfeitures	611	2	13				15		15
Amortization of share-based compensation			15				15		15
Purchase and retirement of common and treasury stock	(1,124)	(9)	(27)				(36)		(36)
Principal payment by Employee Stock Ownership Plan under guaranteed loan					6		6		6
Notes receivable for restricted stock-payments			1				1		1
Balance at September 30, 2012	63,348	\$ 56	\$ 20	\$ 1,653	\$ (8)	\$ 92	\$ 1,813	\$ 126	\$ 1,939

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

**CABOT CORPORATION**  
**CONSOLIDATED STATEMENT OF CHANGES IN STOCKHOLDERS' EQUITY**  
**Years Ended September 30**  
**(In millions, except shares in thousands)**

2013	Common Stock, Net of Treasury Stock		Additional Paid-in Capital	Retained Earnings	Deferred Employee Benefits	Accumulated Other Comprehensive Income	Total Cabot Corporation Stockholders ' Equity	Non- controlling Interests	Total Stockholders ' Equity
	Shares	Cost							
Balance at September 30, 2012	63,348	\$ 56	\$ 20	\$ 1,653	\$ (8)	\$ 92	\$ 1,813	\$ 126	\$ 1,939
Net income attributable to Cabot Corporation				153			153		153
Net Income attributable to non-controlling interests								7	7
Total other comprehensive income						11	11	3	14
Contribution from noncontrolling interests								13	13
Noncontrolling interest—dividends								(17)	(17)
Cash dividends paid to common stockholders				(51)			(51)		(51)
Issuance of stock under employee compensation plans, net of forfeitures	784		12				12		12
Amortization of share-based compensation			13				13		13
Purchase and retirement of common and treasury stock	(161)		(6)				(6)		(6)
Principal payment by Employee Stock Ownership Plan under guaranteed loan					6		6		6
Balance at September 30, 2013	<u>63,971</u>	<u>\$ 56</u>	<u>\$ 39</u>	<u>\$ 1,755</u>	<u>\$ (2)</u>	<u>\$ 103</u>	<u>\$ 1,951</u>	<u>\$ 132</u>	<u>\$ 2,083</u>

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

## **Notes to Consolidated Financial Statements**

### **Note A. Significant Accounting Policies**

The consolidated financial statements have been prepared in conformity with accounting principles generally accepted in the United States. The significant accounting policies of Cabot Corporation ("Cabot" or "the Company") are described below.

On January 20, 2012, the Company completed the sale of its Supermetals Business. The applicable results of its operations for all periods presented are reflected as discontinued operations in the Consolidated Statements of Operations. Unless otherwise indicated, all disclosures and amounts in the Notes to Consolidated Financial Statements relate to the Company's continuing operations.

On July 31, 2012, the Company completed the acquisition of Norit N.V. ("Norit"). The financial position, results of operations and cash flows of Norit are included in the Consolidated Financial Statements from the date of acquisition.

Certain amounts in prior years' Consolidated Statement of Cash Flows and the Consolidated Balance Sheets have been reclassified to conform to the current presentation.

#### ***Principles of Consolidation***

The consolidated financial statements include the accounts of Cabot and its wholly-owned subsidiaries and majority-owned and controlled U.S. and non-U.S. subsidiaries. Additionally, Cabot considers consolidation of entities over which control is achieved through means other than voting rights, of which there were none in the periods presented. Intercompany transactions have been eliminated in consolidation.

#### ***Cash and Cash Equivalents***

Cash equivalents include all highly liquid investments with a maturity of three months or less at date of acquisition. Cabot continually assesses the liquidity of cash and cash equivalents and, as of September 30, 2013, has determined that they are readily convertible to cash.

#### ***Inventories***

Inventories are stated at the lower of cost or market. The cost of all carbon black inventories in the U.S. is determined using the last-in, first-out ("LIFO") method. The cost of Specialty Fluids inventories, which are classified as assets held for rent, is determined using the average cost method. The cost of other U.S. and non-U.S. inventories is determined using the first-in, first-out ("FIFO") method.

Cabot reviews inventory for both potential obsolescence and potential declines in anticipated selling prices. In this review, the Company makes assumptions about the future demand for and market value of the inventory, and based on these assumptions estimates the amount of any obsolete, unmarketable, slow moving or overvalued inventory. Cabot writes down the value of these inventories by an amount equal to the difference between the cost of the inventory and its estimated market value.

#### ***Investments***

The Company has investments in equity affiliates and marketable securities. As circumstances warrant, all investments are subject to periodic impairment reviews. Unless consolidation is required, investments in equity affiliates, where Cabot generally owns between 20% and 50% of the affiliate, are accounted for using the equity method. Cabot records its share of the equity affiliate's results of operations based on its percentage of ownership of the affiliate. Dividends received from equity affiliates are a return on investment and are recorded as a reduction to the equity investment value. At September 30, 2013 and 2012, Cabot had equity affiliate investments of \$119 million and \$115 million, respectively. Dividends declared from these investments were \$8 million, \$6 million and \$5 million in fiscal 2013, 2012 and 2011, respectively.



All investments in marketable securities are classified as available-for-sale and are recorded at fair value with the corresponding unrealized holding gains or losses, net of taxes, recorded as a separate component of other comprehensive income within stockholders' equity. Unrealized losses that are determined to be other-than-temporary, based on current and expected market conditions, are recognized in earnings. The fair value of marketable securities is determined based on quoted market prices at the balance sheet dates. The cost of marketable securities sold is determined by the specific identification method. The Company's investment in marketable securities was immaterial as of both September 30, 2013 and 2012.

### ***Property, Plant and Equipment***

Property, plant and equipment are recorded at cost. Depreciation of property, plant and equipment is calculated using the straight-line method over the estimated useful lives. The depreciable lives for buildings, machinery and equipment, and other fixed assets are twenty to twenty-five years, ten to twenty-five years, and three to twenty-five years, respectively. The cost and accumulated depreciation for property, plant and equipment sold, retired, or otherwise disposed of are removed from the Consolidated Balance Sheets and resulting gains or losses are included in earnings in the Consolidated Statements of Operations. Expenditures for repairs and maintenance are charged to expenses as incurred. Expenditures for major renewals and betterments, which significantly extend the useful lives of existing plant and equipment, are capitalized and depreciated.

In the third quarter of fiscal 2013, the Company changed the estimated depreciable lives of certain machinery and equipment from ten to twenty-five years to reflect the Company's experience. The change was accounted for as a change in estimate. Based on the asset base at the time of the change, the Company expects the change will increase Income from continuing operations by \$9 million (\$0.14 per diluted common share) over a twelve month period. The change increased Income from continuing operations by \$4 million (\$0.06 per diluted common share) in fiscal 2013.

Cabot capitalizes interest costs when they are part of the historical cost of acquiring and constructing certain assets that require a period of time to prepare for their intended use. During fiscal 2013, 2012 and 2011, Cabot capitalized \$5 million, \$4 million and \$2 million of interest costs, respectively. These amounts will be amortized over the life of the related assets.

### ***Intangible Assets and Goodwill***

The Company records tangible and intangible assets acquired and liabilities assumed in business combinations under the acquisition method of accounting. Amounts paid for an acquisition are allocated to the assets acquired and liabilities assumed based on their fair values at the date of acquisition. Goodwill is comprised of the purchase price of business acquisitions in excess of the fair value assigned to the net tangible and identifiable intangible assets acquired. Goodwill is not amortized but is reviewed for impairment annually, or when events or changes in the business environment indicate that the carrying value of the reporting unit may exceed its fair value. A reporting unit, for the purpose of the impairment test, is at or below the operating segment level, and constitutes a business for which discrete financial information is available and regularly reviewed by segment management. The separate businesses included within Performance Materials and Advanced Technologies are considered separate reporting units. Goodwill balances relative to these segments are recorded in the Fumed Metal Oxides reporting unit within Performance Materials and the Security Materials reporting unit within Advanced Technologies.

The Company first assesses qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying value amount and as a basis for determining whether it is necessary to perform the two-step goodwill impairment test. Alternatively, the Company may elect to proceed directly to the two-step goodwill impairment test. If an initial qualitative assessment identifies that it is more likely than not that the carrying value of a reporting unit exceeds its estimated fair value, an

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additional quantitative evaluation is performed under the two-step impairment test. If based on the quantitative evaluation the fair value of the reporting unit is less than its carrying amount, the Company performs an analysis of the fair value of all assets and liabilities of the reporting unit. If the implied fair value of the reporting unit's goodwill is determined to be less than its carrying amount, an impairment is recognized for the difference. The fair value of a reporting unit is based on discounted estimated future cash flows. The assumptions used to estimate fair value include management's estimates of future growth rates, operating cash flows, capital expenditures, and discount rates over an estimate of the remaining operating period at the reporting unit level. Should the fair value of any of our reporting units decline because of reduced operating performance, market declines, or other indicators of impairment, or as a result of changes in the discount rate, charges for impairment may be necessary. The future growth in the Purification Solutions business, which had \$466 million of goodwill at September 30, 2013, is highly dependent on the growth in the mercury removal portion of this business. This growth relies upon the adoption and enforcement of environmental laws and regulations, particularly those that would require U.S. based coal fired electrical utilities to reduce the quantity of air pollutants they release, including mercury, to comply with the Mercury and Air Toxics Standards that become effective in April 2015. The annual review is performed as of May 31.

The Company uses assumptions and estimates in determining the fair value of assets acquired and liabilities assumed in a business combination. The determination of the fair value of intangible assets requires the use of significant judgment with regard to (i) assumptions used in the valuation model; and (ii) determination of the intangible assets' useful lives. The Company estimates the fair value of identifiable acquisition-related intangible assets principally based on projections of cash flows that will arise from these assets. The projected cash flows are discounted to determine the fair value of the assets at the dates of acquisition. The Company reviews definite-lived intangible assets for impairment when indication of potential impairment exists, such as a significant reduction in cash flows associated with the assets. Actual cash flows arising from a particular intangible asset could vary from projected cash flows which could imply different carrying values from those established at the dates of acquisition and which could result in impairment of such asset. The Company evaluates indefinite-lived intangible assets for impairment annually or when events occur or circumstances change that may reduce the fair value of the asset below its carrying amount. The annual review is performed as of May 31. The Company may first perform a qualitative assessment to determine whether it is necessary to perform the quantitative impairment test or bypass the qualitative assessment and proceed directly to performing the quantitative impairment test. The quantitative impairment test is based on discounted estimated future cash flows. The assumptions used to estimate fair value include management's estimates of future growth rates and discount rates over an estimate of the remaining operating period at the unit of accounting level. The Company's intangible assets are primarily comprised of trademarks, customer relationships, patented and unpatented technology and other intellectual property. Finite lived intangible assets are amortized over their estimated useful lives.

#### ***Assets Held for Rent***

Assets held for rent represent Specialty Fluids cesium formate product that is available to customers in the normal course of business. Assets held for rent are stated at average cost.

#### ***Asset Retirement Obligations***

Cabot estimates incremental costs for special handling, removal and disposal of materials that may or will give rise to conditional asset retirement obligations ("ARO") and then discounts the expected costs back to the current year using a credit adjusted risk free rate. Cabot recognizes ARO liabilities and costs when the timing and/or settlement can be reasonably estimated. The ARO reserves were \$16 million and \$18 million at September 30, 2013 and 2012, respectively. In fiscal 2012, the Company assumed asset retirement obligations of \$10 million in the acquisition of Norit and made changes to its cash flow

estimates for its other ARO resulting in an additional liability of \$1 million. In fiscal 2013, ARO liabilities were reduced by \$2 million mainly due to changes made to the Company's cash flow timing estimates.

### ***Impairment of Long-Lived Assets***

Cabot's long-lived assets primarily include property, plant and equipment, long-term investments, assets held for rent and sale. The carrying values of long-lived assets are reviewed for impairment whenever events or changes in business circumstances indicate that the carrying amount of an asset may not be recoverable. An asset impairment is recognized when the carrying value of the asset is not recoverable based on the probability-weighted undiscounted estimated future cash flows to be generated by the asset. Cabot's estimates reflect management's assumptions about selling prices, production and sales volumes, costs and market conditions over an estimate of the remaining operating period. If an impairment is indicated, the asset is written down to fair value. If the asset does not have a readily determinable market value, a discounted cash flow model may be used to determine the fair value of the asset. The key inputs to the discounted cash flow would be the same as the undiscounted cash flow noted above, with the addition of the discount rate used. In circumstances when an asset does not have separate identifiable cash flows, an impairment charge is recorded when Cabot no longer intends to use the asset.

To test for impairment of assets we generally use a probability-weighted estimate of the future undiscounted net cash flows of the assets over their remaining lives to determine if the value of the asset is recoverable. Long-lived assets are grouped with other assets and liabilities at the lowest level for which independent identifiable cash flows are determinable.

### ***Foreign Currency Translation***

The functional currency of the majority of Cabot's foreign subsidiaries is the local currency in which the subsidiary operates. Assets and liabilities of foreign subsidiaries are translated into U.S. dollars at exchange rates in effect at the balance sheet dates. Income and expense items are translated at average monthly exchange rates during the year. Unrealized currency translation adjustments are included as a separate component of Accumulated other comprehensive income within stockholders' equity.

Realized and unrealized foreign currency gains and losses arising from transactions denominated in currencies other than the subsidiary's functional currency are reflected in earnings with the exception of (i) intercompany transactions considered to be of a long-term investment nature; and (ii) foreign currency borrowings designated as net investment hedges. Gains or losses arising from these transactions are included as a component of other comprehensive income. In fiscal 2013, 2012 and 2011, net foreign currency transaction gains of \$2 million, losses of \$2 million, and losses of \$6 million, respectively, are included in Other expense in the Consolidated Statements of Operations as part of continuing operations.

### ***Financial Instruments***

Cabot's financial instruments consist primarily of cash and cash equivalents, accounts and notes receivable, investments, notes receivable from the sale of a business, accounts payable and accrued liabilities, short-term and long-term debt, and derivative instruments. The carrying values of Cabot's financial instruments approximate fair value with the exception of long-term debt that has not been designated as part of a fair value hedge and note receivable from the sale of a business (refer to Note J). The non-hedged long-term debt is recorded at amortized cost. The fair values of the Company's financial instruments are based on quoted market prices, if such prices are available. In situations where quoted market prices are not available, the Company relies on valuation models to derive fair value. Such valuation takes into account the ability of the financial counterparty to perform.

Cabot uses derivative financial instruments primarily for purposes of hedging exposures to fluctuations in interest rates and foreign currency exchange rates, which exist as part of its on-going business operations. Cabot does not enter into derivative contracts for speculative purposes, nor does it

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hold or issue any derivative contracts for trading purposes. All derivatives are recognized on the Consolidated Balance Sheets at fair value. Where Cabot has a legal right to offset derivative settlements under a master netting agreement with a counterparty, derivatives with that counterparty are presented on a net basis. The changes in the fair value of derivatives are recorded in either earnings or Accumulated other comprehensive income, depending on whether or not the instrument is designated as part of a hedge transaction and, if designated as part of a hedge transaction, the type of hedge transaction. The gains or losses on derivative instruments reported in Accumulated other comprehensive income are reclassified to earnings in the period in which earnings are affected by the underlying hedged item. The ineffective portion of all hedges is recognized in earnings during the period in which the ineffectiveness occurs.

In accordance with Cabot's risk management strategy, the Company may enter into certain derivative instruments that may not be designated as hedges for hedge accounting purposes. Although these derivatives are not designated as hedges, the Company believes that such instruments are closely correlated with the underlying exposure, thus managing the associated risk. The Company records in earnings the gains or losses from changes in the fair value of derivative instruments that are not designated as hedges. Cash movements associated with these instruments are presented in the Consolidated Statement of Cash Flows as Cash Flows from Operating Activities because the derivatives are designed to mitigate risk to the Company's cash flow from operations. The cash flows related to the principal of these instruments are presented in the Cash Flows from Financing Activities section of the Consolidated Statement of Cash Flows.

### **Revenue Recognition**

Cabot recognizes revenue when persuasive evidence of an arrangement exists, delivery has occurred or services have been rendered, the price is fixed or determinable and collectability is reasonably assured. Cabot generally is able to ensure that products meet customer specifications prior to shipment. If the Company is unable to determine that the product has met the specified objective criteria prior to shipment or if title has not transferred because of sales terms, the revenue is considered "unearned" and is deferred until the revenue recognition criteria are met.

Shipping and handling charges related to sales transactions are recorded as sales revenue when billed to customers or included in the sales price.

The following table shows the relative size of the revenue recognized in each of the Company's reportable segments:

	Years ended September 30		
	2013	2012	2011
Reinforcement Materials	56%	63%	65%
Performance Materials	27%	28%	29%
Advanced Technologies	7%	7%	6%
Purification Solutions	10%	2% <sup>(1)</sup>	N/A

<sup>(1)</sup> Fiscal 2012 includes two months of revenue for Purification Solutions, which the Company acquired on July 31, 2012.

Cabot derives the substantial majority of its revenues from the sale of products in Reinforcement Materials and Performance Materials. Revenue from these products is typically recognized when the product is shipped and title and risk of loss have passed to the customer. The Company offers certain of its customers cash discounts and volume rebates as sales incentives. The discounts and volume rebates are recorded as a reduction in sales at the time revenue is recognized and are estimated based on historical experience and contractual obligations. Cabot periodically reviews the assumptions underlying its estimates of discounts and volume rebates and adjusts its revenues accordingly.

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Revenue in Advanced Technologies, excluding the Specialty Fluids Business, is typically recognized when the product is shipped and title and risk of loss have passed to the customer. Depending on the nature of the contract with the customer, a portion of the revenue may be recognized using proportional performance. The Company has technology and licensing agreements with one customer that are accounted for as multiple element arrangements. Revenue is recognized ratably over the term of the agreements limited by the cumulative amounts that become due, some of which are through 2022. The Company recorded \$9 million of royalty and technology payments in fiscal year 2013 from these agreements.

A significant portion of the revenue in the Specialty Fluids Business, included in Advanced Technologies, arises from the rental of cesium formate. This revenue is recognized throughout the rental period based on the contracted rental terms. Customers are also billed and revenue is recognized, typically at the end of the job, for cesium formate product that is not returned. The Company also generates revenues from cesium formate sold outside of a rental process and revenue is recognized upon delivery of the fluid.

Revenue in Purification Solutions is typically recognized when the product is shipped and title and risk of loss have passed to the customer. For major activated carbon injection systems projects, revenue is recognized using the percentage-of-completion method.

### ***Cost of Sales***

Cost of sales consists of cost of raw and packaging materials, direct manufacturing costs, depreciation, internal transfer costs, inspection costs, inbound and outbound freight and shipping and handling costs, plant purchasing and receiving costs and other overhead expense necessary to manufacture the products.

### ***Accounts and Notes Receivable***

Trade receivables are recorded at the invoiced amount and generally do not bear interest. Trade receivables in China may at certain times be settled with the receipt of bank issued non-interest bearing notes, which represent the Company's notes receivable balance. These notes totaled 148 million Chinese Renminbi ("RMB") (\$24 million) and 155 million RMB (\$24 million) as of September 30, 2013 and 2012, respectively, and are included in accounts and notes receivable. Cabot periodically sells a portion of the trade receivables in China at a discount and such sales are accounted for as asset sales. The Company does not have any continuing involvement with the notes after the sale. The difference between the proceeds from the sale and the carrying value of the receivables is recognized as a loss on the sale of receivables and is included in Other expense in the accompanying Consolidated Statements of Operations. During fiscal 2013, 2012 and 2011, the Company recorded charges of \$4 million, \$2 million, and less than \$1 million, respectively, for the sale of these receivables.

Cabot maintains allowances for doubtful accounts based on an assessment of the collectability of specific customer accounts, the aging of accounts receivable and other economic information on both a historical and prospective basis. Customer account balances are charged against the allowance when it is probable the receivable will not be recovered. The change from fiscal 2012 to 2013 was \$3 million due to an increase in specific customer reserves. The change from fiscal 2011 to 2012 was immaterial. There is no off-balance sheet credit exposure related to customer receivable balances.

### ***Notes receivable from sale of business***

The Company's Notes receivable from sale of business are derived from the sale of the Supermetals Business to Global Advanced Metals Pty Ltd., an Australian company ("GAM") as discussed in Note D. The Notes are carried at amortized cost and the carrying value was \$214 and \$252 million at September 30, 2013 and 2012, respectively. The outstanding amount due and payable under these Notes on March 31, 2014 is \$215 million. The Notes are subject to an impairment assessment and impairment is recorded if,

based on current information, it is probable that the Company will be unable to collect all amounts due from the borrower in accordance with the terms of the Notes. No impairment was recorded as of September 30, 2013 and 2012.

### ***Stock-based Compensation***

Cabot recognizes compensation expense for stock-based awards granted to employees using the fair value method. Under the fair value recognition provisions, stock-based compensation cost is measured at the grant date based on the fair value of the award, and is recognized as expense over the service period, which generally represents the vesting period, and includes an estimate of the awards that will be forfeited, and an estimate of what level of performance the Company will achieve for Cabot's performance-based stock awards. Cabot calculates the fair value of its stock options using the Black-Scholes option pricing model. The fair value of restricted stock and restricted stock units is determined using the closing price of Cabot stock on the day of the grant.

### ***Selling and Administrative Expenses***

Selling and administrative expenses consist of salaries and fringe benefits of sales and office personnel, general office expenses and other expenses not directly related to manufacturing operations.

### ***Research and Technical Expenses***

Research and technical expenses include salaries, equipment and material expenditures, and contractor fees and are expensed as incurred.

### ***Income Taxes***

Deferred income taxes are determined based on the estimated future tax effects of differences between financial statement carrying amounts and the tax bases of existing assets and liabilities. Deferred tax assets are recognized to the extent that realization of those assets is considered to be more likely than not.

A valuation allowance is established for deferred taxes when it is more likely than not that all or a portion of the deferred tax assets will not be realized. Provisions are made for the U.S. income tax liability and additional non-U.S. taxes on the undistributed earnings of non-U.S. subsidiaries, except for amounts Cabot has designated to be indefinitely reinvested.

Cabot records benefits for uncertain tax positions based on an assessment of whether the position is more likely than not to be sustained by the taxing authorities. If this threshold is not met, no tax benefit of the uncertain tax position is recognized. If the threshold is met, the tax benefit that is recognized is the largest amount that is greater than 50% likely of being realized upon ultimate settlement. This analysis presumes the taxing authorities' full knowledge of the positions taken and all relevant facts, but does not consider the time value of money. The Company also accrues for interest and penalties on its uncertain tax positions and includes such charges in its income tax provision in the Consolidated Statements of Operations.

### ***Accumulated Other Comprehensive Income***

Accumulated other comprehensive income, which is included as a component of stockholders' equity, includes unrealized gains or losses on available-for-sale marketable securities and derivative instruments, currency translation adjustments in foreign subsidiaries, translation adjustments on foreign equity securities and minimum pension liability adjustments.

Accumulated other comprehensive items in the accompanying balance sheet consist of the following items net of tax:

	Year ended September 30 2013 (In millions)	Year ended September 30 2012 (In millions)
Foreign currency translation adjustment at beginning of year	\$ 167	\$ 163
Net foreign currency translation adjustments	(13)	4
Balance at end of year	\$ 154	\$ 167
Unrealized gain on investments and derivative instruments at beginning of year	—	\$ 1
Net unrealized gains	2	(1)
Balance at end of year	\$ 2	\$ —
Pension and other postretirement benefit plans at beginning of year	(75)	\$ (58)
Net change in pension and other postretirement benefit plans	22	(17)
Balance at end of year	\$ (53)	\$ (75)
Total accumulated other comprehensive income	\$ 103	\$ 92

### **Environmental Costs**

Cabot accrues environmental costs when it is probable that a liability has been incurred and the amount can be reasonably estimated. When a single liability amount cannot be reasonably estimated, but a range can be reasonably estimated, Cabot accrues the amount that reflects the best estimate within that range or the low end of the range if no estimate within the range is better. The amount accrued reflects Cabot's assumptions about remediation requirements at the contaminated site, the nature of the remedy, the outcome of discussions with regulatory agencies and other potentially responsible parties at multi-party sites, and the number and financial viability of other potentially responsible parties. Cabot discounts certain of its long-term environmental liabilities to reflect the time value of money if the amount of the liability and the amount and timing of cash payments for the liability are fixed and reliably determinable. The liability will be discounted at a rate that will produce an amount at which the liability theoretically could be settled in an arm's length transaction with a third party. This discounted rate may not exceed the risk-free rate for maturities comparable to those of the liability. Cabot does not reduce its estimated liability for possible recoveries from insurance carriers. Proceeds from insurance carriers are recorded when realized by either the receipt of cash or a contractual agreement.

### **Use of Estimates**

The preparation of consolidated financial statements in conformity with generally accepted accounting principles in the United States requires management to make certain estimates and assumptions that affect the reported amount of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reported period. Actual results could differ from those estimates.

### **Note B. Recent Accounting Pronouncements**

In the first quarter of fiscal 2013, the Company adopted guidance that resulted in the addition of separate, consolidated statements of comprehensive income.

## Note C. Acquisitions

### Acquisition of Norit

On July 31, 2012, Cabot acquired all the issued and outstanding shares of Norit N.V. ("Norit") for approximately \$1.1 billion in cash. Norit develops, manufactures and sells activated carbon products and related delivery systems used in a range of applications, including air and water purification, food and beverages, pharmaceuticals and catalysts. The results of Norit's operations are reported under the Purification Solutions reportable segment.

As of June 2013, the Company completed the valuation of its assets acquired and liabilities assumed. The allocation of the purchase price is based on the fair value of assets acquired and liabilities assumed as of July 31, 2012. During fiscal 2013, the Company recorded certain measurement period adjustments which are presented in the table below. The measurement period adjustments and the related tax impact were immaterial to the Company's consolidated financial statements. Accordingly, the effects have not been retrospectively applied. The following table presents the components and allocation of the purchase price, including the measurement period adjustments:

	At Acquisition Date (As reported at September 30, 2012)	Measurement Period Adjustments	At Acquisition Date (As adjusted at September 30, 2013)
		(Dollars in millions)	
Current assets	\$ 207	\$ (4)	\$ 203
Property, plant and equipment	385	(14)	371
Other non-current assets	72	4	76
Intangible assets	325	(8)	317
Goodwill	432	22	454
Current liabilities	(98)	—	(98)
Deferred non-current tax liabilities	(176)	4	(172)
Other non-current liabilities	(34)	(4)	(38)
Total purchase price	<u>\$ 1,113</u>	<u>\$ —</u>	<u>\$ 1,113</u>

As part of the purchase price allocation, the Company determined that the separately identifiable intangible assets were customer relationships, developed technology, and trademarks in the amounts of \$110 million, \$150 million, and \$57 million, respectively. Customer relationships and developed technology are being amortized over a weighted average period of 18 years and 20 years, respectively. Trademarks are considered to have an indefinite life and will be tested for impairment annually or when events or changes in the business environment indicate that the carrying value of the intangible assets may exceed their fair value.

The determination of the fair value of intangible assets acquired required the use of significant judgment with regard to (i) assumptions used in the valuation model; and (ii) determination of the intangible assets' useful lives. The Company estimated the fair value of identifiable acquisition-related intangible assets principally based on projections of cash flows that will arise from these assets. The projected cash flows were discounted to determine the fair value of the assets at the date of acquisition.

The fair value of the assets acquired includes trade receivables of \$46 million. The Company did not acquire any other class of receivable when it acquired Norit.

The excess of the purchase price over the fair value of the tangible net assets and intangible assets acquired was recorded as goodwill. The goodwill recognized is attributable to the expected growth and operating synergies that the Company expects to realize from this acquisition. Goodwill from the acquisition will not be deductible for tax purposes.

The following table provides pro forma net sales and earnings for fiscal 2012, as if Norit had been acquired on October 1, 2011. The unaudited pro forma results reflect certain adjustments related to the



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acquisition, such as increased depreciation and amortization expense on assets acquired from Norit resulting from recording the fair value of assets acquired, the impact of acquisition financing with the related tax effects. The pro forma results do not include any synergies or other effects of the planned integration of Norit. Accordingly, such pro forma amounts are not necessarily indicative of the results that actually would have occurred had the acquisition been completed on October 1, 2011, nor are they indicative of the future operating results of the combined company.

	Year ended September 30 2012 (unaudited) (in millions)
Net sales	\$ 3,585
Income from continuing operations	209

### **Acquisition of Nhumo**

In June 2013, the Company entered into a stock purchase agreement with Grupo Kuo S.A.B. de C.V. ("KUO") to purchase the remaining 60 percent common stock equity of its Mexican carbon black manufacturing joint venture, Nhumo, S.A.P.I. de C.V. ("NHUMO"). On November 15, 2013, the Company completed the acquisition and paid KUO approximately \$80 million in cash. In addition, NHUMO issued \$25 million of redeemable preferred stock to KUO. The preferred stock will accumulate dividends at 6% annually, which will be payable annually, and will be redeemable at the option of KUO or the Company on the fifth anniversary of the closing for \$25 million. The Company's preexisting interest in NHUMO will be re-measured to its fair value at the date of acquisition and a gain will be recorded if the fair value is greater than the carrying amount.

### **Note D. Discontinued Operations**

In January 2012, the Company sold its Supermetals Business to Global Advanced Metals Pty Ltd., an Australian company ("GAM"), for \$452 million, including cash consideration of \$175 million received on the closing date and notes receivable ("GAM Notes") totaling \$277 million payable at various dates through March 2014. In addition, the Company is entitled to receive quarterly cash payments in each calendar quarter that the GAM Notes are outstanding in an amount equal to 50% of cumulative year to date adjusted earnings before interest, taxes, depreciation and amortization ("Adjusted EBITDA") of the sold business for the relevant calendar quarter. A minimum payment of \$11.5 million was guaranteed in the first year after the sale regardless of the Adjusted EBITDA generated and is included in the \$277 million total of GAM Notes. The carrying value of the GAM Notes at September 30, 2013 is \$214 million, which is presented as Notes receivable from sale of business on the Consolidated Balance Sheet. These Notes are secured by liens on the property and assets of the sold business and guaranteed by the GAM Corporate Group. The Notes are included in Current assets as they are due no later than March 31, 2014. Through September 30, 2013, Cabot received payments of \$62 million under the GAM Notes.

The after-tax gain from discontinued operations of \$2 million for fiscal 2013 primarily relates to tax adjustments of \$4 million partially off-set by \$2 million of loss from the settlement of pension liabilities of the disposed business. Discontinued Operations, net of tax in fiscal 2012 includes the after-tax gain on the sale of the Supermetals Business of \$191 million. Discontinued Operations, net of tax in fiscal 2012 and 2011 also include results of the Supermetal Business prior to sale. The operating results of the Supermetals Business prior to the sale and the gain on the sale of the business are reported within Income from discontinued operations, net of tax, in the Consolidated Statements of Operations.

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The following table summarizes the results from discontinued operations:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Net sales and other operating revenues	\$ —	\$ 46	\$ 201
Income from operations before income taxes	—	21	84
Provision for income taxes on operations	—	(7)	(31)
Income from operations, net of tax	\$ —	\$ 14	\$ 53
(Loss) Gain on sale of discontinued operations	(2)	300	—
Benefit from (Provision for) income taxes on gain (loss) on sale	4	(109)	—
Gain on sale of discontinued operations, net of tax	2	191	—
Income from discontinued operations, net of tax	\$ 2	\$ 205	\$ 53

**Discontinued Operations—Other**

In addition to the divestiture of its Supermetals Business, the Company also has classified certain settlements associated with other businesses divested as part of Income from discontinued operations, net of tax in its Consolidated Statements of Operations for the fiscal years ended September 30, 2013 and 2011. These settlements resulted in gains of less than \$1 million in fiscal 2013 and losses of less than \$1 million in fiscal 2011. No such charges were recorded in fiscal 2012.

In connection with the sale of the Supermetals Business, the Company and GAM entered into a tantalum ore supply agreement under which the Company agreed to sell to GAM all of the tantalum ore mined at the Company's mine in Manitoba, Canada, subject to a maximum amount, for a three-year period commencing in calendar year 2013. In March 2013, the Company and GAM agreed to terminate the agreement and the Company expects to ship the remaining tantalum ore inventory it has on hand to GAM by the end of calendar 2013. Revenues, costs and expenses from this agreement for the year ended September 30, 2013 are included in continuing operations of the Specialty Fluids Business.

**Note E. Inventories**

Inventories, net of LIFO, obsolete, unmarketable and slow moving reserves, are as follows:

	September 30	
	2013	2012
	(Dollars in millions)	
Raw materials	\$ 102	\$ 131
Work in process	2	5
Finished goods	310	351
Other	44	46
Total	\$ 458	\$ 533

Inventories valued under the LIFO method comprised approximately 5% of total inventories at September 30, 2013 and 2012. At September 30, 2013 and 2012, the LIFO reserve was \$55 million and \$52 million, respectively. Other inventory is comprised of certain spare parts and supplies.

During fiscal 2013 and 2012, inventory quantities carried on a LIFO basis were reduced at the Company's U.S. carbon black sites. These reductions led to liquidations of LIFO inventory quantities and resulted in a decrease of cost of goods sold of \$1 million and an increase in consolidated net income of \$1 million (\$0.01 per diluted common share) in both fiscal 2013 and 2012. No such reductions occurred in fiscal 2011.

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Cabot reviews inventory for both potential obsolescence and potential loss of value periodically. In this review, Cabot makes assumptions about the future demand for and market value of the inventory and, based on these assumptions, estimates the amount of obsolete, unmarketable or slow moving inventory. The inventory reserves were \$15 million at both September 30, 2013 and 2012.

**Note F. Property, Plant and Equipment**

Property, plant and equipment is summarized as follows:

	September 30	
	2013	2012
	(Dollars in millions)	
Land and land improvements	\$ 138	\$ 167
Buildings	511	495
Machinery and equipment	2,511	2,379
Other	238	226
Construction in progress	278	244
Total property, plant and equipment	3,676	3,511
Less: accumulated depreciation	(2,071)	(1,959)
Net property, plant and equipment	\$ 1,605	\$ 1,552

Depreciation expense was \$176 million, \$153 million and \$138 million for fiscal 2013, 2012 and 2011, respectively.

**Note G. Goodwill and Other Intangible Assets**

Cabot had goodwill balances of \$504 million and \$480 million at September 30, 2013 and 2012, respectively. The carrying amount of goodwill attributable to each reportable segment with goodwill balances and the changes in those balances during the years ended September 30, 2013 and 2012 are as follows:

	Reinforcement Materials	Performance Materials	Advanced Technologies	Purification Solutions	Total
	(Dollars in millions)				
Balance at September 30, 2011	\$ 27	\$ 11	\$ 2	\$ —	\$ 40
Goodwill acquired	—	—	—	432	432
Foreign currency translation adjustment	1	—	—	7	8
Balance at September 30, 2012	28	11	2	439	480
Measurement period adjustments <sup>(1)</sup>	—	—	—	22	22
Foreign currency translation adjustment	(3)	—	—	5	2
Balance at September 30, 2013	\$ 25	\$ 11	\$ 2	\$ 466	\$ 504

<sup>(1)</sup> Refer to Note C for further details related to the measurement period adjustments.

Goodwill impairment tests are performed at least annually. The Company performed its annual impairment assessment as of May 31, 2013 and determined there was no impairment.

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The following table provides information regarding the Company's intangible assets:

	Years Ended September 30					
	2013			2012		
	Gross Carrying Value	Accumulated Amortization	Net Intangible Assets	Gross Carrying Value	Accumulated Amortization	Net Intangible Assets
(Dollars in millions)						
Intangible assets with finite lives						
Developed technology	\$ 155	\$ (9)	\$ 146	\$ 151	\$ (2)	\$ 149
Customer relationships <sup>(1)</sup>	113	(7)	106	121	(1)	120
Other intangible assets	3	(2)	1	6	(3)	3
Total intangible assets, finite lives	\$ 271	\$ (18)	\$ 253	\$ 278	\$ (6)	\$ 272
Trademarks, indefinite lives	57	—	57	58	—	58
Total intangible assets	\$ 328	\$ (18)	\$ 310	\$ 336	\$ (6)	\$ 330

<sup>(1)</sup> The change in the gross carrying value of the Customer relationships intangible asset is primarily due to measurement period adjustments as described in Note C.

Intangible assets with finite lives are amortized over their estimated useful lives, which range from six to twenty years, with a weighted average amortization period of 19 years. See Note C for weighted average lives of intangible assets acquired in the acquisition of Norit. Amortization expense for the years ended September 30, 2013 and 2012 was \$14 million and \$3 million, respectively, and is included in Cost of sales and Selling and administrative expenses in the Consolidated Statements of Operations. Amortization expense for the year ended September 30, 2011 was less than \$1 million and is included in Cost of sales in the Consolidated Statements of Operations. Total amortization expense is estimated to be approximately \$14 million each year for the next five fiscal years. Intangible assets with indefinite lives are evaluated for impairment at least annually. The Company performed its annual impairment assessment as of May 31, 2013, and determined there was no impairment.

#### Note H. Accounts Payable, Accrued Liabilities and Other Liabilities

Accounts payable and accrued liabilities included in current liabilities consist of the following:

	September 30	
	2013	2012
(Dollars in millions)		
Accounts payable	\$ 398	\$ 425
Accrued employee compensation	41	46
Other accrued liabilities	95	135
Total	\$ 534	\$ 606

Other long-term liabilities consist of the following:

	September 30	
	2013	2012
(Dollars in millions)		
Employee benefit plan liabilities	\$ 149	\$ 190
Non-current tax liabilities	47	53
Financial instrument liabilities	—	26
Other accrued liabilities	69	45
Total	\$ 265	\$ 314

## Note I. Debt and Other Obligations

### Long-term Obligations

The Company's long-term obligations, the fiscal year in which they mature and their respective interest rates are summarized below:

	September 30	
	2013	2012
	(Dollars in millions)	
Variable Rate Debt:		
\$750 million Revolving Credit Facility, expires 2016	\$ —	\$ 189
Chinese Renminbi Notes, due through 2016, 5.40%—6.77%	47	11
Total variable rate debt	47	200
Fixed Rate Debt:		
5% Notes due 2017	\$ 300	\$ 300
2.55% Notes due 2018	250	250
3.7% Notes due 2022	350	350
Medium Term Notes:		
Notes due 2019, 7.42%	30	30
Notes due 2022, 8.346%—8.47%	15	15
Note due 2028, 6.57%—7.28%	8	8
Total Medium Term Notes	\$ 53	\$ 53
Eurobond, due 2013, 5.25%	—	177
ESOP Note, due 2014, 8.29%	2	8
Chinese Renminbi Notes, due through 2018, 4.68%—6.65%	16	5
Total fixed rate debt	971	1,143
Capital lease obligations, due through 2031	18	16
Unamortized debt discount	(2)	(2)
Total debt	1,034	1,357
Less current portion of long-term debt	(14)	(185)
Total long-term debt	\$ 1,020	\$ 1,172

**\$750 million Revolving Credit Facility**—The Company has a \$750 million committed unsecured revolving credit agreement which expires in August 2016. All borrowings under the credit agreement are based on variable interest rates. Generally, the interest rates are based on LIBOR plus a spread. This spread, which was 1.125% as of September 30, 2013, is based on the Company's credit rating, resulting in a total interest rate of 1.304% as of September 30, 2013. The Company plans to use the credit agreement for general corporate purposes, which may include working capital, refinancing existing indebtedness, capital expenditures, share repurchases, and acquisitions, and support for the commercial paper program. The credit agreement contains affirmative, negative and financial covenants and events of default customary for financings of this type. The financial covenants in the credit agreement include interest coverage, debt-to-EBITDA and subsidiary debt to total capitalization ratios. As of September 30, 2013, no amounts were outstanding on this facility. The amount available on the revolving credit agreement, after consideration of letters of credit and commercial paper outstanding, was \$508 million as of September 30, 2013.

**Chinese Renminbi Debt**—The Company's consolidated Chinese subsidiaries had \$63 million and \$16 million of unsecured long-term debt outstanding as of September 30, 2013 and September 30, 2012, respectively. The increase relates to the financing of the rubber blacks manufacturing facility in Xingtai City, Hebei Province, China.

**5% Notes due fiscal 2017**—In fiscal 2009, Cabot issued \$300 million in public notes with a coupon of 5% that will mature on October 1, 2016. These notes are unsecured and pay interest on April 1 and

October 1. The net proceeds of this offering were \$296 million after deducting discounts and issuance costs. The discount of approximately \$2 million was recorded at issuance and is being amortized over the life of the notes.

**2.55% Notes due fiscal 2018**—In July 2012, Cabot issued \$250 million in public notes with a coupon of 2.55% that will mature on January 15, 2018. These notes are unsecured and pay interest on January 15 and July 15. The net proceeds of this offering were \$248 million after deducting discounts and issuance costs. The discount of less than \$1 million was recorded at issuance and is being amortized over the life of the notes.

**3.7% Notes due fiscal 2022**—In July 2012, Cabot issued \$350 million in public notes with a coupon of 3.7% that will mature on July 15, 2022. These notes are unsecured and pay interest on January 15 and July 15. The net proceeds of this offering were \$347 million after deducting discounts and issuance costs. The discount of less than \$1 million was recorded at issuance and is being amortized over the life of the notes.

**Medium Term Notes**—At both September 30, 2013 and 2012, there were \$53 million of unsecured medium term notes outstanding issued to numerous lenders with various fixed interest rates and maturity dates. The weighted average maturity of the total outstanding medium term notes is 8 years with a weighted average interest rate of 7.65%.

**Eurobond**—A European subsidiary issued an unsecured \$175 million U.S. dollar denominated bond with a fixed coupon rate of 5.25% in fiscal 2003 with interest due on March 1 and September 1 of each year. The functional currency of this subsidiary is the Euro. A discount of approximately \$1 million was recorded at issuance and was amortized over the life of the bond. A portion of the Eurobond was designated as a fair value hedge and accordingly was recorded at fair value. As described in Note K, the Company entered into cross-currency swaps and a variable interest rate swap to hedge the variability in cash flows for changes in the exchange rates and to offset a portion of the changes in the fair value of the underlying debt. The bond, and associated derivatives, matured and were repaid in September 2013.

**ESOP Debt**—In November 1988, Cabot's Employee Stock Ownership Plan ("ESOP") borrowed \$75 million from an institutional lender in order to finance its purchase of Cabot shares. This debt bears interest at 8.29% per annum and is to be repaid in quarterly installments through December 31, 2013. Cabot, as guarantor, has reflected the outstanding balance of \$2 million and \$8 million at September 30, 2013 and 2012, respectively. An equal amount, representing deferred employee benefits, has been recorded as a reduction to stockholders' equity. Cabot contributed \$4 million to the ESOP to service the debt during fiscal 2013, \$5 million during fiscal 2012, and \$4 million during fiscal 2011. Dividends on ESOP shares used for debt service were \$2 million for each of fiscal years 2013, 2012 and 2011. In addition, interest incurred on the ESOP debt was less than \$1 million during fiscal 2013 and \$1 million during both fiscal 2012 and 2011.

**Capital Lease Obligations**—Cabot had capital lease obligations for certain equipment and buildings with a recorded value of \$18 million and \$16 million at September 30, 2013 and 2012, respectively. Cabot will make payments totaling \$42 million over the next 18 years, including \$12 million of imputed interest. At September 30, 2013 and 2012, the original cost of capital lease assets was \$24 million and \$26 million, respectively, and the associated accumulated depreciation of assets under capital leases was \$9 million and \$11 million at September 30, 2013 and 2012, respectively. The amortization related to those assets under capital lease is included in depreciation expense.

### Future Years Payment Schedule

The aggregate principal amounts of long-term debt and capital lease obligations due in each of the five years from fiscal 2014 through 2018 are as follows:

Fiscal Years Ending	Principal payments on long term debt	Payments on Capital Lease Obligations	Total
	(Dollars in millions)		
2014	\$ 12	\$ 5	\$ 17
2015	30	4	34
2016	11	3	14
2017	300	3	303
2018	262	3	265
Thereafter	403	24	427
Less: executory costs and interest	—	(24)	(24)
Total	<u>\$ 1,018</u>	<u>\$ 18</u>	<u>\$1,036</u>

**Standby letters of credit**—At September 30, 2013, the Company had provided standby letters of credit that were outstanding and not drawn totaling \$10 million, which expire through fiscal 2014.

### Short Term Obligations

**Short-term Notes Payable** —The Company had unsecured short-term notes of \$264 million and \$62 million as of September 30, 2013 and 2012, respectively, with maturities of less than one year. The weighted-average interest rate on short-term notes payable, including commercial paper, was 0.7% and 5.2% for fiscal 2013 and 2012, respectively.

In January 2013, Cabot entered into agreements to initiate a commercial paper program under which Cabot may issue unsecured commercial paper. The maximum aggregate balance of commercial paper and the revolving credit facility may not exceed the current maximum size of the revolving credit facility, \$750 million. The proceeds from the issuance of the commercial paper have been used for general corporate purposes, which may include working capital, refinancing existing indebtedness, capital expenditures, share repurchases, and acquisitions. The revolving credit facility is available to repay the outstanding commercial paper, if necessary. The commercial paper will typically be sold at a discount from par at rates that will vary based upon market conditions at the time of the issuance of the commercial paper. The maturities of the commercial paper will vary but may not exceed 364 days from the date of issue. The definitive documents relating to the Program contain customary representations, warranties, default and indemnification provisions.

The outstanding balance of commercial paper included within the \$264 million Notes payable on the Consolidated Balance Sheets as of September 30, 2013 was \$241 million, bearing a weighted-average interest rate of 0.32% with a weighted-average maturity of 28 days.

### Note J. Financial Instruments and Fair Value Measurements

The FASB authoritative guidance on fair value measurements defines fair value, provides a framework, for measuring fair value in generally accepted accounting principles, and requires certain disclosures about fair value measurements. The disclosures focus on the inputs used to measure fair value. The guidance establishes the following hierarchy for categorizing these inputs:

- Level 1 — Quoted market prices in active markets for identical assets or liabilities
- Level 2 — Significant other observable inputs (e.g., quoted prices for similar items in active markets, quoted prices for identical or similar items in markets that are not active, inputs other than quoted prices that are observable such as interest rate and yield curves, and market-corroborated inputs)
- Level 3 — Significant unobservable inputs

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There were no transfers of financial assets or liabilities measured at fair value between Level 1 and Level 2, or transfers into or out of Level 3, during fiscal 2013 or 2012.

The GAM Notes are classified as Level 3 instruments within the fair value hierarchy because they are valued using a valuation model with significant unobservable inputs. The valuation model used is the discounted cash flow model and the significant inputs are the discount rate which incorporates the credit standing of GAM and the fact that the notes are secured by liens on the property and assets of the sold business and guaranteed by the GAM Corporate Group, Adjusted EBITDA forecast and timing of expected cash flows from GAM. The notes are carried at amortized cost and the carrying value was \$214 million at September 30, 2013 which is lower than the contractually due payment of \$215 million on March 31, 2014. As of September 30, 2012 the carrying value and fair value of GAM Notes were both \$252 million. Using the discounted cash flow model at September 30, 2013 with the main inputs being the discount rate and the timing of the contractually due payments of \$215 million on March 31, 2014, the fair value of the notes was \$205 million.

The following table presents information about the Company's financial assets and liabilities measured at fair value on a recurring basis as of September 30, 2013 and 2012. The derivatives presented in the table below are presented by derivative type, net of the legal right to offset derivative settlements by each counterparty:

	September 30	
	2013	2012
	Level 2	Level 2
	(Dollars in Millions)	
<b>Assets at fair value:</b>		
Guaranteed investment contract <sup>(1)</sup>	\$ 14	\$ 14
Derivatives relating to interest rates <sup>(2)</sup>	—	2
<b>Total assets at fair value</b>	<b>\$ 14</b>	<b>\$ 16</b>
<b>Liabilities at fair value:</b>		
Derivatives relating to foreign currency <sup>(2)</sup>	\$ —	\$ 28
Hedged long-term debt <sup>(3)</sup>	—	36
<b>Total liabilities at fair value</b>	<b>\$ —</b>	<b>\$ 64</b>

<sup>(1)</sup> Included in "Other assets" in the Consolidated Balance Sheets.

<sup>(2)</sup> Included in "Prepaid expenses and other current assets", "Other assets", "Accounts payable and accrued liabilities" or "Other liabilities" in the Consolidated Balance Sheets.

<sup>(3)</sup> Included in "Current portion of long-term debt" in the fiscal 2012 Consolidated Balance Sheets.

At September 30, 2013 and 2012, the fair values of cash and cash equivalents, accounts and notes receivable, accounts payable and accrued liabilities, and notes payable approximated their carrying values due to the short-term nature of these instruments. The carrying value and fair value of the long-term fixed rate debt were \$0.97 billion and \$1.01 billion, respectively, as of September 30, 2013. The carrying value and fair value of the long-term fixed rate debt were \$1.14 billion and \$1.42 billion, respectively, as of September 30, 2012. The fair values of Cabot's fixed rate long-term debt and capital lease obligations are estimated based on comparable quoted market prices at the respective period ends. The carrying amounts of Cabot's floating rate long-term debt and capital lease obligations approximate their fair values. All such measurements are based on observable inputs and are classified as Level 2 within the fair value hierarchy. The valuation technique used is the discounted cash flow model.



## Note K. Derivatives

### **Risk Management**

Cabot's business operations are exposed to changes in interest rates, foreign currency exchange rates and commodity prices because Cabot finances certain operations through long and short-term borrowings, denominates transactions in a variety of foreign currencies and purchases certain commoditized raw materials. Changes in these rates and prices may have an impact on future cash flows and earnings. The Company manages these risks through normal operating and financing activities and, when deemed appropriate, through the use of derivative financial instruments.

The Company has policies governing the use of derivative instruments and does not enter into financial instruments for trading or speculative purposes.

By using derivative instruments, Cabot is subject to credit and market risk. If a counterparty fails to fulfill its performance obligations under a derivative contract, Cabot's credit risk will equal the fair value of the derivative. Generally, when the fair value of a derivative contract is positive, the counterparty owes Cabot, thus creating a payment risk for Cabot. The Company minimizes counterparty credit (or repayment) risk by entering into transactions with major financial institutions of investment grade credit rating. As of September 30, 2013, the counterparties with which the Company has executed derivatives carried a Standard and Poor's credit rating between A and AA-, inclusive. Cabot's exposure to market risk is not hedged in a manner that completely eliminates the effects of changing market conditions on earnings or cash flow. No significant concentration of credit risk associated with our derivative instruments existed at September 30, 2013.

### **Interest Rate Risk Management**

Cabot's objective is to maintain a certain fixed-to-variable interest rate mix on the Company's debt obligations. Cabot periodically enters into interest rate swaps as a hedge of the underlying debt instruments to effectively change the characteristics of the interest rate without changing the debt instrument. The following table provides details of the derivatives held as of September 30, 2012 to manage interest rate risk. As of September 30, 2013, there were no derivatives held to manage interest rate risk.

Description	Borrowing	Notional Amount		Hedge Designation
		September 30, 2013	September 30, 2012	
Interest Rate Swap—Fixed to Variable <sup>(1)</sup>	Eurobond (20% of \$175 million)	—	USD 35 million	Fair Value

<sup>(1)</sup> In September 2013, the Company settled the Eurobond and related foreign currency and interest rate swaps.

### **Foreign Currency Risk Management**

Cabot's international operations are subject to certain risks, including currency exchange rate fluctuations and government actions. Cabot endeavors to match the currency in which debt is issued to the currency of the Company's major, stable cash receipts. In some situations Cabot has issued debt denominated in U.S. dollars and then entered into cross currency swaps that exchange the dollar principal and interest payments into a currency where the Company expects long-term, stable cash receipts.

Additionally, the Company has foreign currency exposure arising from its net investments in foreign operations. Cabot, from time to time, enters into cross-currency swaps to mitigate the impact of currency rate changes on the Company's net investments.

The Company also has foreign currency exposure arising from the denomination of monetary assets and liabilities in foreign currencies other than the functional currency of a given subsidiary as well as the

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risk that currency fluctuations could affect the dollar value of future cash flows generated in foreign currencies. Accordingly, Cabot uses short-term forward contracts to minimize the exposure to foreign currency risk.

In certain situations where the Company has forecasted purchases under a long-term commitment or forecasted sales denominated in a foreign currency, Cabot may enter into appropriate financial instruments in accordance with the Company's risk management policy to hedge future cash flow exposures.

The following table provides details of the derivatives held as of September 30, 2013 and 2012 to manage foreign currency risk.

Description	Borrowing	Notional Amount		Hedge Designation
		September 30, 2013	September 30, 2012	
Cross Currency Swap	Eurobond (80% of \$175 million)	—	USD 140 million swapped to EUR 124 million	No designation
Cross Currency Swap	Eurobond (20% of \$175 million)	—	USD 35 million swapped to EUR 31 million	No designation
Forward Foreign Currency Contracts <sup>(1)</sup>	N/A	USD 31 million	USD 106 million	No designation
Forward Foreign Currency Contracts <sup>(1)</sup>	N/A	—	USD 3 million	Cash Flow

<sup>(1)</sup> Cabot's forward foreign exchange contracts are denominated primarily in the Australian dollar, British pound sterling, Canadian dollar, Chinese renminbi, Czech koruna, Euro, Indian rupee and Japanese yen.

**Accounting for Derivative Instruments and Hedging Activities**

The Company determines the fair value of financial instruments using quoted market prices whenever available. When quoted market prices are not available for various types of financial instruments (such as forwards, options and swaps), the Company uses standard models with market-based inputs, which take into account the present value of estimated future cash flows and the ability of the financial counterparty to perform. For interest rate and cross-currency swaps, the significant inputs to these models are interest rate curves for discounting future cash flows. For forward foreign currency contracts, the significant inputs are interest rate curves for discounting future cash flows, and exchange rate curves of the foreign currency for translating future cash flows.

*Fair Value Hedge*

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

*Cash Flow Hedge*

For derivative instruments that are designated and qualify as cash flow hedges, the effective portion of the gain or loss on the derivative is recorded in Accumulated other comprehensive income and

reclassified to earnings in the same period or periods during which the hedged transaction affects earnings. Gains and losses on the derivative representing either hedge ineffectiveness or hedge components excluded from the assessment of effectiveness are recognized in current period earnings.

#### *Other Derivative Instruments*

From time to time, the Company may enter into certain derivative instruments that may not be designated as hedges for accounting purposes, which include cross currency swaps, foreign currency forward contracts and commodity derivatives. For cross currency swaps and foreign currency forward contracts not designated as hedges, the Company uses standard models with market-based inputs. The significant inputs to these models are interest rate curves for discounting future cash flows, and exchange rate curves of the foreign currency for translating future cash flows. In determining the fair value of the commodity derivatives, the significant inputs to valuation models are quoted market prices of similar instruments in active markets. Although these derivatives do not qualify for hedge accounting, Cabot believes that such instruments are closely correlated with the underlying exposure, thus managing the associated risk. The gains or losses from changes in the fair value of derivative instruments that are not accounted for as hedges are recognized in current period earnings.

During fiscal 2013, 2012, and 2011, for derivatives designated as hedges, the change in unrealized gains in Accumulated other comprehensive income, the hedge ineffectiveness recognized in earnings, the realized gains or losses reclassified from Accumulated other comprehensive income, and the losses reclassified from Accumulated other comprehensive income to earnings were immaterial.

During fiscal 2013 and 2012, a gain of \$4 million and a loss of \$10 million, respectively, were recognized in earnings as a result of the remeasurement to Euros of the \$175 million bond held by one of Cabot's European subsidiaries. Both the gain and loss were recognized in earnings through Other expense within the Consolidated Statement of Operations. The 2013 gain was offset by a loss of \$2 million and the 2012 loss was offset by a gain of \$12 million, both from Cabot's cross currency swaps that are not designated as hedges, but which Cabot entered into to offset the foreign currency remeasurement exposure on the debt. Additionally, during fiscal 2013 and 2012, Cabot recognized in earnings through Other expense within the Consolidated Statement of Operations, gains of \$5 million and \$10 million respectively, related to its foreign currency forward contracts, which were not designated as hedges.

During fiscal 2011, a loss of \$2 million was recognized in earnings as a result of the remeasurement to Euros of the \$175 million bond held by one of Cabot's European subsidiaries. This loss, which was recognized in earnings through Other expense within the Consolidated Statement of Operations, was offset by a gain of \$1 million from Cabot's cross currency swaps that are not designated as hedges, but which Cabot entered into to offset the foreign currency translation exposure on the debt. Additionally, during fiscal 2011, Cabot recognized in earnings through Other expense within the Consolidated Statement of Operations, gains of \$3 million related to its foreign currency forward contracts, which were not designated as hedges.

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The following table provides the fair value and Consolidated Balance Sheets presentations of derivative instruments by each derivative type, without regard to the legal right to offset derivative settlement by each counterparty:

Fair Value of Derivative Instruments	Consolidated Balance Sheet Caption	September 30, 2013	September 30, 2012
(Dollars in millions)			
Asset Derivatives			
Derivatives designated as hedges Interest rate <sup>(1)</sup>	Accounts payable and accrued liabilities	\$ —	\$ 2
Derivatives not designated as hedges Other <sup>(2)</sup>	Prepaid expenses and other current assets	—	1
Total Asset Derivatives		\$ —	\$ 3
Liability Derivatives			
Derivatives not designated as hedges Foreign currency <sup>(1)</sup>	Accounts payable and accrued liabilities, and Other liabilities	\$ —	\$ 28
Other <sup>(2)</sup>	Prepaid expenses and other current assets	—	1
Total derivatives not designated as hedges		\$ —	\$ 29
Total Liability Derivatives		\$ —	\$ 29

<sup>(1)</sup> Contracts of \$2 million presented on a gross basis in this table at September 30, 2012 have the legal right to offset against other types of contracts with a common counterparty and, therefore, are presented on a net basis in "Accounts payable and accrued liabilities" in the Consolidated Balance Sheet.

<sup>(2)</sup> Contracts in an asset and liability position presented on a gross basis in fiscal 2012 in this table have the legal right of offset and, therefore, are presented on a net basis in "Prepaid expenses and other current assets" in the Consolidated Balance Sheets.

The net after-tax amounts to be reclassified from Accumulated other comprehensive income to earnings within the next 12 months are expected to be immaterial.

**Note L. Venezuela**

Cabot owns 49% of an operating affiliate in Venezuela, which is accounted for as an equity affiliate, through wholly owned subsidiaries that carry the investment and receive its dividends. As of September 30, 2013, these subsidiaries carried the operating affiliate investment of \$25 million and held 20 million bolivars (\$3 million) in cash.

In February 2013, the Venezuelan government announced a devaluation of the bolivar from 4.3 bolivars to the U.S. dollar (B/\$) to 6.3 B/\$. Accordingly, the Company remeasured the bolivar denominated monetary accounts in its wholly owned subsidiaries at the new rate, resulting in the recognition of a \$2 million loss in the second quarter of fiscal 2013 through other expense within the Consolidated Statements of Operations. In fiscal 2013, the Company recognized a tax benefit of \$1 million from a reduction in the deferred tax liability due to the impact of the devaluation of the bolivar on unremitted earnings. The operating affiliate recognized a \$1 million loss during fiscal 2013 as a result of the remeasurement of monetary assets and liabilities in bolivars and a charge of \$1 million from the tax

impact of the currency devaluation mainly on U.S. dollar and Euro denominated cash and receivable balances. Cabot's share of these combined losses was approximately \$1 million, which was included within the Equity in earnings of affiliated companies, net of tax line of the Consolidated Statements of Operations for fiscal 2013.

As a result of the currency devaluation, the Company performed an impairment analysis on its equity investment in Venezuela during the second quarter of fiscal 2013 using the discounted cash flow model to determine the fair value of its investment. The Company determined that there was no impairment to the carrying value of its equity investment. The Company continues to closely monitor developments in Venezuela and their potential impact on the recoverability of its equity affiliate investment.

During fiscal 2013 and 2012, the operating affiliate declared dividends of 15 million bolivars (\$3 million) and 27 million bolivars (\$6 million), respectively, to the Company's wholly owned subsidiaries, which were paid in U.S. dollars and repatriated.

The Venezuelan bolivars held by the Company's wholly owned subsidiaries may only be exchanged for foreign currencies through certain Venezuelan government controlled channels. The channels available are the Venezuelan central bank ("CADIVI"), and Venezuelan government and government-backed bond offerings. The bond offerings use a bidding process, where companies and individuals requiring U.S. dollars place a request for a fixed sum, and CADIVI then determines how to allocate the pool of U.S. dollars in that issuance. The Company closely monitors its ability to convert its bolivar holdings into U.S. dollars, as the Company intends to convert substantially all bolivars held by its wholly owned subsidiaries in Venezuela to U.S. dollars as soon as practical. Any future change in the CADIVI official rate or opening of additional parallel markets could lead the Company to change the exchange rate and result in gains or losses on the bolivar denominated assets held by its wholly owned subsidiaries and operating affiliate.

#### **Note M. Employee Benefit Plans**

The information below provides detail concerning the Company's benefit obligations under the defined benefit and post-retirement benefit plans it sponsors, including the obligations the Company assumed in its acquisition of Norit. The information included in this footnote and the related tables also includes amounts pertaining to the Company's former Supermetals Business, unless indicated otherwise.

Defined benefit plans provide pre-determined benefits to employees that are distributed upon retirement. Cabot used a September 30 measurement date for all U.S. and foreign plan obligations and assets in both fiscal 2013 and 2012. Cabot is making all required contributions to these plans. The accumulated benefit obligation was \$170 million for the U.S. defined benefit plans and \$412 million for the foreign plans as of September 30, 2013 and \$187 million for the U.S. defined benefit plans and \$398 million for the foreign plans as of September 30, 2012.

In addition to benefits provided under the defined benefit and post-retirement benefit plans, the Company provides benefits under defined contribution plans. One of these plans includes an Employee Stock Ownership Plan ("ESOP") component, which is described below. Excluding the expenses related to the ESOP, Cabot recognized expenses related to these plans of \$9 million in fiscal 2013, \$7 million in fiscal 2012 and \$7 million in fiscal 2011.

##### *Employee Stock Ownership Plan*

Eligible employees of Cabot and its participating subsidiaries in the U.S. participate in the ESOP. Under the ESOP, which is 100% Company funded, 108,696.645 shares of Cabot common stock are allocated to participants' accounts at the end of each quarter. Cabot has established a minimum and maximum contribution percentage of total eligible pay. The actual contribution percentage in any given quarter varies depending on Cabot's stock price on the last day of the relevant quarter, the total eligible compensation and the amount of the dividends allocated to participants. Compensation expense related

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to the ESOP based on the fair value of the shares on the date of allocation was \$4 million in fiscal 2013, \$5 million in fiscal 2012 and \$4 million in fiscal 2011. At December 31, 2013, all shares available for distribution under the ESOP will have been allocated to participant accounts and no further contributions under the plan will be made after that date.

The following provides information about benefit obligations, plan assets, the funded status and weighted-average assumptions of the defined benefit pension and postretirement benefit plans:

	Years Ended September 30							
	2013				2012			
	Pension Benefits				Postretirement Benefits			
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
(Dollars in millions)								
<b>Change in Benefit Obligations:</b>								
Benefit obligation at beginning of year	\$195	\$ 423	\$147	\$ 236	\$64	\$ 18	\$64	\$ 15
Service cost	6	9	5	7	—	—	1	—
Interest cost	6	15	7	11	2	1	2	1
Plan participants' contribution	—	2	—	1	—	—	—	—
Foreign currency exchange rate changes	—	—	—	5	—	(1)	—	1
(Gain) loss from changes in actuarial assumptions	(19) <sup>(1)</sup>	12	12	38	(6)	—	1	2
Benefits paid <sup>(2)</sup>	(11)	(17)	(11)	(11)	(5)	(1)	(5)	(1)
Settlements or curtailment gain	(7)	(2)	(1)	(4)	—	—	(1)	—
Acquisition of Norit	—	—	36	140	—	—	2	—
Divestiture of CSM	—	(5)	—	—	—	—	—	—
Other	—	2	—	(1)	—	—	—	—
Benefit obligation at end of year	<u>\$170</u>	<u>\$ 439</u>	<u>\$195</u>	<u>\$ 422</u>	<u>\$55</u>	<u>\$ 17</u>	<u>\$64</u>	<u>\$ 18</u>

	Years Ended September 30							
	2013				2012			
	Pension Benefits				Postretirement Benefits			
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
(Dollars in millions)								
<b>Change in Plan Assets:</b>								
Fair value of plan assets at beginning of year	\$149	\$ 356	\$103	\$ 197	\$ —	\$ —	\$ —	\$ —
Actual return on plan assets	17	22	23	24	—	—	—	—
Employer contribution	—	13	8	13	5	—	5	1
Plan participants' contribution	—	2	—	1	—	—	—	—
Foreign currency exchange rate changes	—	4	—	5	—	—	—	—
Benefits paid <sup>(2)</sup>	(10)	(17)	(11)	(11)	(5)	—	(5)	(1)
Settlements	—	(1)	—	(5)	—	—	—	—
Acquisition of Norit	—	—	27	133	—	—	—	—
Divestiture of Supermetals Business	—	(3)	—	—	—	—	—	—
Expenses paid from assets	(1)	(1)	(1)	(1)	—	—	—	—
Fair value of plan assets at end of year	<u>\$ 155</u>	<u>\$ 375</u>	<u>\$149</u>	<u>\$ 356</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>
Funded status	<u>\$ (15)</u>	<u>\$ (64)</u>	<u>\$ (46)</u>	<u>\$ (66)</u>	<u>\$ (55)</u>	<u>\$ (17)</u>	<u>\$ (64)</u>	<u>\$ (18)</u>
Recognized liability	<u>\$ (15)</u>	<u>\$ (64)</u>	<u>\$ (46)</u>	<u>\$ (66)</u>	<u>\$ (55)</u>	<u>\$ (17)</u>	<u>\$ (64)</u>	<u>\$ (18)</u>

- (1) During fiscal 2013, the Company approved the freezing of U.S. pension plans that resulted in the remeasurement of the plans assets and liabilities. The remeasurement decreased the net pension obligation of the plan, which is included within Other Liabilities caption on the Consolidated Balance Sheets, by \$19 million and increased Accumulated other comprehensive income by \$13 million, net of tax. The impact to the Company's Net periodic benefit cost was less than \$1 million.
- (2) Included in this amount is \$7 million that the Company paid directly to the participants in its defined benefit plans in both fiscal 2013 and 2012.

### ***Pension Assumptions and Strategy***

The following assumptions were used to determine the pension benefit obligations at September 30:

	Assumptions as of September 30					
	2013		2012		2011	
	Pension Benefits					
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
Actuarial assumptions as of the year-end measurement date:						
Discount rate	4.5%	3.8%	3.5%	3.6%	4.5%	4.8%
Rate of increase in compensation	3.0%	3.1%	3.5%	3.1%	3.8%	3.1%
Actuarial assumptions used to determine net periodic benefit cost during the year:						
Discount rate	3.5%	3.6%	4.5%	4.8%	4.5%	4.3%
Expected long-term rate of return on plan assets	7.8%	5.3%	7.8%	5.3%	7.8%	6.1%
Rate of increase in compensation	3.5%	3.1%	3.8%	3.2%	3.8%	3.3%

### ***Post Retirement Assumptions and Strategy***

The following assumptions were used to determine the post retirement benefit obligations at September 30:

	Assumptions as of September 30					
	2013		2012		2011	
	Postretirement Benefits					
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
Actuarial assumptions as of the year-end measurement date:						
Discount rate	4.0%	4.4%	3.3%	3.9%	4.5%	4.9%
Initial health care cost trend rate	7.5%	7.5%	8.0%	7.4%	8.5%	8.0%
Actuarial assumptions used to determine net cost during the year:						
Discount rate	3.3%	3.9%	4.5%	4.9%	4.5%	4.8%
Initial health care cost trend rate	8.0%	7.4%	8.5%	7.9%	7.5%	8.0%

Cabot uses discount rates as of September 30, the plans' measurement date, to determine future benefit obligations under its U.S. and foreign defined benefit plans. The discount rates for the defined benefit plans in the U.S., Canada, UAE, Euro-zone, Japan, Switzerland and the U.K. are derived from yield curves that reflect high quality corporate bond yield or swap rate information in each region and reflect the characteristics of Cabot's employee benefit plans. The discount rates for the defined benefit plans in the Czech Republic and Indonesia are based on government bond indices that best reflect the durations of the plans, adjusted for credit spreads presented in selected AA corporate bond indices. The rates utilized

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are selected because they represent long-term, high quality, fixed income benchmarks that approximate the long-term nature of Cabot's pension obligations and related payouts.

	Years Ended September 30							
	2013				2012			
	Pension Benefits				Postretirement Benefits			
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
(Dollars in millions)								
<b>Net Amounts Recognized in the Consolidated Balance Sheets</b>								
Noncurrent assets	\$ —	\$ 4	\$ —	\$ 4	\$ —	\$ —	\$ —	\$ —
Current liabilities	—	(1)	—	(1)	(5)	—	(6)	(1)
Noncurrent liabilities	(15)	(67)	(46)	(69)	(50)	(17)	(58)	(17)

Amounts recognized in Accumulated other comprehensive income at September 30, 2013 and 2012 were as follows:

	Years Ended September 30							
	2013				2012			
	Pension Benefits				Postretirement Benefits			
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
(Dollars in millions)								
Net actuarial (gain) loss	\$ (4)	\$ 78	\$ 29	\$ 77	\$ (3)	\$ 3	\$ 3	\$ 3
Net prior service cost (credit)	—	—	1	—	(7)	—	(10)	—
Balance in accumulated other comprehensive income, pretax	<u>\$ (4)</u>	<u>\$ 78</u>	<u>\$ 30</u>	<u>\$ 77</u>	<u>\$ (10)</u>	<u>\$ 3</u>	<u>\$ (7)</u>	<u>\$ 3</u>

In fiscal 2014, an estimated net loss of \$3 million will be amortized from Accumulated other comprehensive income to net periodic benefit cost. In addition, amortization of estimated prior service credits of \$3 million for other postretirement benefits will be amortized from accumulated other comprehensive income to net periodic benefit costs in fiscal 2014.

### Estimated Future Benefit Payments

The Company expects that the following benefit payments will be made to plan participants in the years from 2014 to 2023:

Years Ended:	Pension Benefits		Postretirement Benefits	
	U.S.	Foreign	U.S.	Foreign
	(Dollars in millions)			
2014	\$ 12	\$ 16	\$ 5	\$ 1
2015	11	17	5	1
2016	14	20	5	1
2017	13	19	5	1
2018	12	20	5	1
2019-2023	60	117	20	5

Post retirement medical benefits are unfunded and impact Cabot's cash flows as benefits become due. The Company expects to contribute \$3 million and \$13 million related to its U.S. and foreign pension plans, respectively, in fiscal 2014.



Net periodic defined benefit pension and other postretirement benefit costs include the following components:

	Years Ended September 30											
	2013		2012		2011		2013		2012		2011	
	Pension Benefits						Postretirement Benefits					
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
	(Dollars in millions)											
Service cost	\$ 6	\$ 9	\$ 5	\$ 7	\$ 5	\$ 6	\$ —	\$ —	\$ 1	\$ —	\$ 1	\$ —
Interest cost	6	15	7	11	6	11	2	1	2	1	2	1
Expected return on plan assets	(10)	(18)	(9)	(13)	(8)	(13)	—	—	—	—	—	—
Amortization of prior service cost	—	—	—	—	—	—	(3)	—	(3)	—	(3)	—
Net losses	1	4	1	3	—	3	—	—	—	—	—	—
Settlements or curtailments cost (income)	1	2	1	1	—	—	—	—	(1)	—	—	—
Other	—	—	—	—	—	2	—	—	—	—	—	—
Net periodic benefit cost	\$ 4	\$ 12	\$ 5	\$ 9	\$ 3	\$ 9	\$ (1)	\$ 1	\$ (1)	\$ 1	\$ —	\$ 1

Other changes in plan assets and benefit obligations recognized in other comprehensive income, pre-tax are as follows:

	Years Ended September 30											
	2013		2012		2011		2013		2012		2011	
	Pension Benefits						Postretirement Benefits					
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
	(Dollars in millions)											
Net (gains) losses	\$(32)	\$ 8	\$(3)	\$ 27	\$ 2	\$ 1	\$(6)	\$ —	\$ 1	\$ 1	\$(1)	\$ (1)
Prior service cost	—	—	(1)	—	—	—	3	—	1	—	(2)	—
Amortization of prior service (cost) credit	—	—	—	—	—	—	—	—	3	—	4	—
Amortization of prior unrecognized loss	(2)	(4)	(1)	(3)	—	(3)	—	—	—	—	—	—
Other	—	(4)	—	1	—	—	—	—	—	—	—	—
Total other comprehensive (income) loss	\$(34)	\$ —	\$(5)	\$ 25	\$ 2	\$ (2)	\$(3)	\$ —	\$ 5	\$ 1	\$ 1	\$ (1)

#### ***Curtailments and settlements of employee benefit plans***

In recent years, the Company incurred curtailments and settlements of certain of its employee benefit plans. Associated with these curtailments and settlements, the Company recognized a net loss of \$3 million, a net loss of \$1 million and a net gain of less than \$1 million in fiscal 2013, 2012 and 2011, respectively.

#### ***Sensitivity Analysis***

Measurement of postretirement benefit expense is based on actuarial assumptions used to value the postretirement benefit liability at the beginning of the year. Assumed health care cost trend rates have an effect on the amounts reported for the health care plans. The fiscal 2013 weighted-average assumed health care cost trend rate is 8.0% for U.S. plans and 7.4% for foreign plans. The ultimate weighted-average health care cost trend rate has been designated as 7.5% for U.S. plans and 7.0% for foreign plans.

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and is anticipated to be achieved during 2018 and 2016, respectively. A one percentage point change in the 2013 assumed health care cost trend rate would have the following effects:

	1-Percentage-Point			
	Increase		Decrease	
	U.S.	Foreign	U.S.	Foreign
	(Dollars in millions)			
Effect on postretirement benefit obligation	\$—	\$ 3	\$—	\$ (2)

### Plan Assets

The Company's defined benefit pension plans weighted-average asset allocations at September 30, 2013 and 2012, by asset category are as follows:

Asset Category:	Pension Assets			
	September 30			
	2013		2012	
	U.S.	Foreign	U.S.	Foreign
Equity securities	63%	41%	62%	39%
Debt securities	37%	54%	38%	56%
Cash and other securities	—	5%	—	5%
Total	100%	100%	100%	100%

To develop the expected long-term rate of return on plan assets assumption, the Company used a capital asset pricing model. The model considers the current level of expected returns on risk-free investments comprised of government bonds, the historical level of the risk premium associated with the other asset classes in which the portfolio is invested, and the expectations for future returns for each asset class. The expected return for each asset class was then weighted based on the target asset allocation to develop the expected long-term rate of return for each plan.

Cabot's investment strategy for each of its defined benefit plans in the U.S. and abroad is generally based on a set of investment objectives and policies that cover time horizons and risk tolerance levels consistent with plan liabilities. Periodic studies are performed to determine the asset mix that will meet pension obligations at a reasonable cost to the Company. The assets of the defined benefit plans are comprised principally of investments in equity and high quality fixed income securities, which are broadly diversified across the capitalization and style spectrum and are managed using both active and passive strategies. The weighted average target asset allocation for the U.S. plans is 65% in equity and 35% in fixed income and for the foreign plans is 39% in equity, 55% in fixed income, 2% in real estate and 4% in cash and other securities.

For pension or other postretirement benefit plan assets classified as Level 1 measurements (measured using quoted prices in active markets), total fair value is either the price of the most recent trade at the time of the market close or the official close price, as defined by the exchange on which the asset is most actively traded on the last trading day of the period, multiplied by the number of units held without consideration of transaction costs.

For pension or other postretirement benefit plan assets classified as Level 2 measurements, where the security is frequently traded in less active markets, fair value is based on the closing price at the end of the period; where the security is less frequently traded, fair value is based on the price a dealer would pay for the security or similar securities, adjusted for any terms specific to that asset or liability. Market inputs are obtained from well-established and recognized vendors of market data and subjected to tolerance/quality checks.

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Some pension or other postretirement benefit plan assets are held in funds where a net asset value is calculated based on the fair value of the underlying assets and the number of shares owned. The classification of the fund (Level 1, 2 or 3 measurements) is determined based on the classification of the significant holdings within the fund.

The fair value of the Company's pension plan assets at September 30, 2013 and 2012 by asset category is as follows:

Asset Category:	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Observable Inputs (Level 2)	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Observable Inputs (Level 2)	Total
	2013			2012		
Cash	\$ 2	\$ 1	\$ 3	\$ 4	\$ 1	\$ 5
Direct investments:		—				
U.S. equity securities	21	—	21	19	—	19
Non-U.S. equity securities	—	—	—	5	—	5
Non-U.S. government bonds	52	—	52	50	—	50
Non-U.S. corporate bonds	—	—	—	11	—	11
Total direct investments	\$ 73	\$ —	\$ 73	\$ 85	\$ —	\$ 85
Investment funds:						
Equity funds <sup>(1)</sup>	132	101	233	97	108	205
Fixed income funds <sup>(2)</sup>	93	111	204	66	126	192
Real estate funds <sup>(3)</sup>	—	1	1	—	2	2
Common and collective investment trust funds <sup>(4)</sup>	—	1	1	—	—	—
Money market funds	3	—	3	1	—	1
Other	—	—	—	4	—	4
Total investment funds	\$ 228	\$ 214	\$ 442	\$ 168	\$ 236	\$ 404
Alternative investments:						
Insurance contracts <sup>(5)</sup>	—	12	12	—	10	10
Other	—	—	—	—	1	1
Total alternative investments	—	\$ 12	\$ 12	\$ —	\$ 11	\$ 11
Total pension plan assets	\$ 303	\$ 227	\$ 530	\$ 257	\$ 248	\$ 505

<sup>(1)</sup> The equity funds asset class includes funds that invest in U.S. equities as well as equity securities issued by companies incorporated, listed or domiciled in countries in developed and/or emerging markets. These companies may be in the small-, mid- or large-cap categories.

<sup>(2)</sup> The fixed income funds asset class includes investments in high quality funds. High quality fixed income funds primarily invest in low risk U.S. and non-U.S. government securities, investment-grade corporate bonds, mortgages and asset-backed securities. A significant portion of the fixed income funds asset includes investment in long-term bond funds.

<sup>(3)</sup> The real estate funds asset class includes funds that primarily invest in entities which are principally engaged in the ownership, acquisition, development, financing, sale and/or management of income-producing real estate properties, both commercial and residential. These funds typically seek long-term growth of capital and current income that is above average relative to public equity funds.

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- (4) The investment objective of the portfolio of this common and collective investment trust is to achieve long-term, total return in excess of the MSCI World Index Benchmark by investing in equity securities of companies worldwide, emphasizing those with above-average potential for capital appreciation.
- (5) Insurance contracts held by the Company's non-U.S. plans are issued by well-known, highly rated insurance companies.

**Note N. Stock-Based Compensation**

The Company has established equity compensation plans that provide stock-based compensation to eligible employees. The 2009 Long-Term Incentive Plan (the "2009 Plan"), which was approved by Cabot's stockholders on March 12, 2009 and amended on March 8, 2012, authorizes the issuance of approximately 8.9 million shares of common stock. This is the Company's only equity incentive plan under which awards may currently be made to employees, although some awards made under the Company's 2006 Long-Term Incentive Plan (the "2006 Plan") remain outstanding at September 30, 2013.

The terms of awards made under Cabot's equity compensation plans are generally determined by the Compensation Committee of Cabot's Board of Directors. The 2009 Plan allows for grants of stock options, restricted stock, restricted stock units and other stock-based awards to employees. The awards made in fiscal 2013, 2012 and 2011 under the 2009 Plan consist of grants of stock options, time-based restricted stock units, performance-based restricted stock units, and restricted stock units that will be settled in cash. The options were issued with an exercise price equal to 100% of the market price of Cabot's common stock on the date of grant, vest over a three year period (30% on each of the first and second anniversaries of the date of grant and 40% on the third anniversary of the date of grant) and expire ten years after grant. The restricted stock units vest three years from the date of the grant. The number of shares issuable, if any, when a performance-based restricted stock unit award vests will depend on the degree of achievement of the corporate performance metrics for each year within the three-year performance period of the award. Accordingly, future compensation costs associated with outstanding awards of performance-based restricted stock units may increase or decrease based on the probability of the Company achieving the performance metrics.

As of September 30, 2013, there were 42,304 outstanding time-based and performance-based restricted stock units which will be settled by the payment of cash. Compensation expense related to these awards is remeasured throughout the vesting period and until ultimate settlement of the award. Cumulative compensation and the associated liability is recorded equal to the fair value of Cabot common stock multiplied by the applicable vesting percentage. The Company recorded liabilities associated with these cash settled awards of \$1 million at both September 30, 2013 and 2012.

Prior to 2009, the principal awards made under the Company's equity plans consisted of grants of restricted stock and stock options. The shares of restricted stock were generally purchased by the employee at a price equal to 30% of the market price of Cabot's common stock on the date of grant, with vesting dates three years after the date of grant. The stock options issued prior to 2009 were issued with an exercise price equal to 100% of the market price of Cabot's common stock on the date of grant, vest three years after the date of grant and expire five years after grant.

Stock-based employee compensation expense was \$8 million, \$10 million and \$10 million, after tax, for fiscal 2013, 2012 and 2011, respectively. The Company recognized the full impact of its stock-based employee compensation expense in the Consolidated Statements of Operations for fiscal 2013, 2012 and 2011 and did not capitalize any such costs on the Consolidated Balance Sheets because those that

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qualified for capitalization were not material. The following table presents stock-based compensation expenses included in the Company's Consolidated Statements of Operations:

	2013	2012	2011
	(Dollars in millions)		
Cost of sales	\$ 4	\$ 5	\$ 5
Selling and administrative expenses	7	9	9
Research and technical expenses	1	1	1
Stock-based compensation expense	12	15	15
Income tax benefit	(4)	(5)	(5)
Net stock-based compensation expense	<u>\$ 8</u>	<u>\$10</u>	<u>\$10</u>

As of September 30, 2013, Cabot has \$10 million, \$3 million and less than \$1 million of total unrecognized compensation cost related to unvested restricted stock units, unvested options and unvested restricted stock, respectively, granted under the Company's equity incentive plans. That cost is expected to be recognized over a weighted-average period of 1.2 years, 0.9 years and 0.4 years for unvested restricted stock units, unvested options and the unvested restricted stock, respectively.

### Equity Incentive Plan Activity

The following table summarizes the total stock option, restricted stock, and restricted stock unit activity in the equity incentive plans for fiscal 2013:

	Stock Options			Restricted Stock		Restricted Stock Units	
	Total Options	Weighted Average Exercise Price	Weighted Average Grant Date Fair Value	Restricted Stock	Weighted Average Grant Date Fair Value	Restricted Stock Units <sup>(1)</sup>	Weighted Average Grant Date Fair Value
	(Shares in thousands)						
Outstanding at September 30, 2012	1,579	\$ 24.17	\$7.37	2	\$ 9.56	1,231	\$ 30.28
Granted	301	35.25	12.46	—	—	417	35.28
Performance-based adjustment <sup>(2)</sup>	—	—	—	—	—	(142)	34.43
Exercised / Vested <sup>(3)</sup>	(245)	19.10	4.77	(1)	9.56	(440)	23.84
Cancelled / Forfeited	(12)	32.04	7.30	—	—	(27)	32.43
Outstanding at September 30, 2013	<u>1,623</u>	26.93	8.71	<u>1</u>	9.56	<u>1,039</u>	34.39
Exercisable at September 30, 2013	<u>1,029</u>	22.63					
Exercisable and expected to vest <sup>(4)</sup>	<u>1,611</u>	26.87					

<sup>(1)</sup> The number "Granted" represents the number of shares issuable upon vesting of time-based restricted stock units and performance-based restricted stock units, assuming the Company performs at the target performance level in each year of the three-year performance period.

<sup>(2)</sup> Represents the incremental number of shares cancelled upon vesting of outstanding performance-based restricted stock units, based on the Company achieving performance at a level less than target under the 2013 performance targets.

<sup>(3)</sup> "Exercised / Vested" includes 160,740 Restricted Stock Units and 379 shares of restricted stock that vested during the year ended September 30, 2013 but were withheld at the request of the award recipient to cover withholding taxes associated with the vesting. The units were added back to the shares available for future issuance under our 2009 Long-Term Incentive Plan.

<sup>(4)</sup> Stock options exercisable and expected to vest in the future, net of estimated forfeitures.

## Stock Options

The following table summarizes information related to the outstanding and vested options on September 30, 2013:

	Total Options Outstanding	Exercisable Options	Exercisable and Expected to Vest
Aggregate Intrinsic Value (in millions)	\$ 26	\$ 21	\$ 26
Weighted Average Remaining Contractual Term (in years)	7.0	6.2	7.0

The aggregate intrinsic value in the table above represents the total pre-tax intrinsic value, based on the Company's closing common stock price of \$42.71 on September 30, 2013, which would have been received by the option holders had all option holders exercised their options and immediately sold their shares on that date.

The intrinsic value of options exercised during fiscal 2013, 2012 and 2011 was \$5 million, \$9 million and \$3 million respectively, and the Company received cash of \$5 million, \$9 million and \$4 million, respectively, from these exercises.

The Company uses the Black-Scholes option-pricing model to estimate the fair value of the options at the grant date. The estimated weighted average grant date fair values of options granted during fiscal 2013, 2012 and 2011 was \$12.46, \$11.64, and \$12.09 per option, respectively. The fair values on the grant date were calculated using the following weighted-average assumptions:

	Years Ended September 30		
	2013	2012	2011
Expected stock price volatility	46%	45%	43%
Risk free interest rate	0.9%	1.3%	1.8%
Expected life of options (years)	6	6	6
Expected annual dividends per year	\$0.80	\$0.72	\$0.72

The expected stock price volatility assumption was determined using the historical volatility of the Company's common stock over the expected life of the option. The expected term reflects the anticipated time period between the measurement date and the exercise date or post-vesting cancellation date.

## Restricted Stock Units

The value of restricted stock unit awards is the closing stock price at the date of the grant. The estimated weighted average grant date fair values of restricted stock unit awards granted during fiscal 2013, 2012 and 2011 was \$35.28, \$33.15 and \$34.76, respectively. The intrinsic value of restricted stock units (meaning the fair value of the units on the date of vest) that vested during fiscal 2013, 2012 and 2011 were \$16 million, \$1 million and less than \$1 million, respectively.

## Restricted Stock

The fair value of restricted stock awards is derived by calculating the difference between the share price and the purchase price at the date of the grant. There were no restricted stock awards granted during fiscal 2013, 2012 or 2011. The intrinsic value of restricted stock that vested during fiscal 2013, 2012 and 2011 was less than \$1 million, less than \$1 million and \$27 million, respectively.

## Supplemental Retirement Savings Plan

Cabot's Supplemental Retirement Savings Plan ("SRSP") provides benefits to highly compensated employees in circumstances in which the maximum limits established under ERISA and the Internal

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Revenue Code prevent them from receiving all of the Company matching and ESOP contributions that would otherwise be provided under the qualified Retirement Savings Plan. The SRSP is non-qualified and unfunded. Contributions under the SRSP are treated as if invested in Cabot common stock. The majority of the distributions made under the SRSP are required to be paid with shares of Cabot common stock. The remaining distributions, which relate to certain grandfathered accounts, will be paid in cash based on the market price of Cabot common stock at the time of distribution. The aggregate value of the accounts that will be paid out in stock, which is equivalent to approximately 133,000 and 110,000 shares of Cabot common stock as of September 30, 2013 and 2012, respectively, is reflected at historic cost in stockholders' equity, and the aggregate value of the accounts that will be paid in cash, which is \$1 million as of both September 30, 2013 and 2012, is reflected in other long-term liabilities and marked-to-market quarterly.

#### Note O. Restructuring

Cabot's restructuring activities were recorded in the Consolidated Statements of Operations as follows:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Cost of sales	\$ 28	\$ 13	\$ 16
Selling and administrative expenses	7	2	2
Research and technical expenses	2	—	—
Total	<u>\$ 37</u>	<u>\$ 15</u>	<u>\$ 18</u>

Restructuring expenses are not reflected in the results of any reportable segments, as management does not consider these activities to be representative of ongoing operating segment results.

Details of these restructuring activities and the related reserves for fiscal 2013 and 2012 were as follows:

	Severance and Employee Benefits	Environmental Remediation	Asset Impairment and Accelerated Depreciation	Asset Sales	Other	Total
	(Dollars in millions)					
Reserve at September 30, 2011	\$ 9	\$ —	\$ —	\$ —	\$ 2	\$ 11
Charges	3	3	7	(1)	3	15
Costs charged against assets	—	—	(7)	(3)	—	(10)
Proceeds from sale	—	—	—	4	—	4
Cash paid	(10)	(2)	—	—	(2)	(14)
Foreign currency translation adjustment	—	—	—	—	(1)	(1)
Reserve at September 30, 2012	\$ 2	\$ 1	\$ —	\$ —	\$ 2	\$ 5
Charges	13	1	19	—	4	37
Costs charged against assets	—	—	(19)	—	(2)	(21)
Cash paid	(8)	—	—	—	(3)	(11)
Reserve at September 30, 2013	<u>\$ 7</u>	<u>\$ 2</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 1</u>	<u>\$ 10</u>

#### Closure of Port Dickson, Malaysia Manufacturing Facility

On April 26, 2013, the Company announced that the Board of its joint venture carbon black company, Cabot Malaysia Sdn. Bhd. ("CMSB"), decided to cease carbon black production at its Port Dickson, Malaysia facility. The facility ceased production in June 2013. The Company holds a 51 percent equity share in

CMSB. The decision, which affects approximately 90 carbon black employees, was driven by the facility's manufacturing inefficiencies and raw materials costs.

During fiscal 2013, the consolidated joint venture has recorded pre-tax restructuring costs of approximately \$18 million comprised mainly of impairment of assets at the facility and accelerated depreciation of approximately \$15 million, severance charges of approximately \$2 million and site demolition, clearing and environmental remediation charges of \$1 million. CMSB's net income or loss is attributable to Cabot Corporation and to the non-controlling interest in its subsidiaries. The portion of the charges that are allocable to the noncontrolling interest in CMSB (49%) are recorded within Net income attributable to noncontrolling interests in the Consolidated Statement of Operations.

The Company expects that the majority of actions related to closure of the plant will be completed in fiscal 2014 and result in total pre-tax charges to the consolidated joint venture of approximately \$24 million. The expected charges are comprised of asset impairments and accelerated depreciation of \$16 million, site demolition, clearing and environmental remediation of \$6 million and severance charges of \$2 million.

Cumulative net cash outlays related to this plan are expected to be approximately \$8 million comprised primarily of \$6 million for site demolition, clearing and environmental remediation, and \$2 million for severance. Through fiscal 2013, CMSB has made approximately \$1 million in cash payments related to this plan related mainly to severance. CMSB expects to make net cash payments of \$6 million during fiscal 2014 and thereafter for site demolition, clearing and environmental remediation and \$1 million related to severance. These amounts exclude any potential proceeds that may be received from the sale of land or other manufacturing assets.

As of September 30, 2013, Cabot has \$1 million of accrued restructuring costs in the Consolidated Balance Sheet related to this closure which is mainly comprised of accrued severance charges.

#### ***Closure of Hong Kong, China Manufacturing Facility***

In March 2012, the Company ceased manufacturing operations at its specialty compounds plant in Hong Kong and moved these operations primarily to its facility in Tianjin, China, which impacted 64 employees.

The Company has recorded pre-tax charges of \$1 million and \$6 million related to this plan in fiscal 2013 and 2012, respectively, comprised mainly of accelerated depreciation, severance and other closure related charges. No further material charges are expected as closure related activities are substantially complete.

Through September 30, 2013, Cabot has made cash payments of approximately \$2 million, comprised primarily of severance and other charges. The Company expects to make net cash payments of less than \$1 million in fiscal 2014. These amounts exclude any potential cash to be received on the sale of land rights.

As of September 30, 2013, Cabot has less than \$1 million of accrued severance charges in the Consolidated Balance Sheet related to this site closure.

#### ***Other Activities***

The Company has recorded pre-tax charges of approximately \$15 million, \$1 million and \$5 million in fiscal 2013, 2012 and 2011, respectively, related to restructuring costs at other locations. Fiscal 2013 charges are comprised of \$10 million severance, \$3 million accelerated depreciation and asset write-offs, and \$2 million of other expenses. Fiscal 2012 and 2011 are comprised mainly of severance charges. The Company anticipates recording additional charges of \$7 million during fiscal 2014 and thereafter,



comprised mainly of accelerated depreciation and site demolition, clearing and environmental remediation.

Through September 30, 2013, Cabot has made cash payments of \$11 million related to these activities and expects to pay \$8 million in fiscal 2014 and thereafter for severance, site demolition, clearing and environmental remediation and other post close operating costs at the impacted locations. As of September 30, 2013, Cabot has \$5 million of accrued severance costs in the Consolidated Balance Sheet related to these activities.

#### ***Previous Actions and Sites Pending Sale***

In prior years, the Company entered into different restructuring plans which have been substantially completed pending the sale of former manufacturing sites in Thane, India and Stanlow, U.K. The Company has incurred total cumulative pre-tax charges of approximately \$154 million related to these plans as of September 30, 2013 comprised of \$65 million for severance charges, \$60 million for accelerated depreciation and asset impairments, \$11 million for environmental, demolition and site clearing costs, and \$19 million of other charges partially offset by \$1 million gain on sale of assets. These amounts do not include any potential gain that will be recorded if the Company successfully sells its land rights and certain other manufacturing related assets in India or land in the U.K.

Restructuring expenses related to these plans were \$2 million, \$8 million and \$13 million in fiscal 2013, 2012, and 2011, respectively. Fiscal 2013 restructuring charges from these activities mainly related to severance and impairment charges, while restructuring charges for these plans in fiscal 2012 were comprised of \$3 million for environmental, demolition and site clearing costs, \$2 million for accelerated depreciation and asset impairments, \$1 million for severance and employee benefits, and \$3 million for other post-close costs, partially offset by \$1 million gain on the sale of the specialty compounds manufacturing facility in Grigno, Italy. Restructuring charges in fiscal 2011 related to these actions were comprised of \$3 million for environmental, demolition and site clearing costs, \$3 million for accelerated depreciation and asset impairments, \$3 million for severance and employee benefits, and \$4 million for other post-close costs.

Through September 30, 2013, Cabot has made net cash payments of \$82 million related to these plans and expects to pay an additional \$4 million in fiscal 2014 and thereafter. These amounts do not include any potential proceeds that will be received if the Company successfully sells its land rights and certain other manufacturing related assets in India or land in the U.K.

As of September 30, 2013, Cabot has \$4 million of accrued environmental, severance, and other costs in the Consolidated Balance Sheet related to these activities.

## Note P. Earnings Per Share

The following tables summarize the components of the basic and diluted earnings per common share computations:

	Years Ended September 30		
	2013	2012	2011
	(In millions, except per share amounts)		
<b>Basic EPS:</b>			
Net income attributable to Cabot Corporation	\$ 153	\$ 388	\$ 236
Less: Dividends and dividend equivalents to participating securities	—	—	1
Less: Undistributed earnings allocated to participating securities <sup>(1)</sup>	1	3	2
Earnings allocated to common shareholders (numerator)	\$ 152	\$ 385	\$ 233
Weighted average common shares and participating securities outstanding	64.4	64.0	65.4
Less: Participating securities <sup>(1)</sup>	0.6	0.6	0.8
Adjusted weighted average common shares (denominator)	63.8	63.4	64.6
Per share amounts—basic:			
Income from continuing operations attributable to Cabot Corporation	\$2.34	\$2.87	\$2.80
Income from discontinued operations	0.04	3.20	0.82
Net income attributable to Cabot Corporation	\$2.38	\$6.07	\$3.62
<b>Diluted EPS:</b>			
Earnings allocated to common shareholders	\$ 152	\$ 385	\$ 233
Plus: Earnings allocated to participating securities	1	3	3
Less: Adjusted earnings allocated to participating securities <sup>(2)</sup>	(1)	(3)	(3)
Earnings available to common shares (numerator)	\$ 152	\$ 385	\$ 233
Adjusted weighted average common shares outstanding	63.8	63.4	64.6
Effect of dilutive securities:			
Common shares issuable <sup>(3)</sup>	0.7	0.8	0.8
Adjusted weighted average common shares (denominator)	64.5	64.2	65.4
Per share amounts—diluted:			
Income from continuing operations attributable to Cabot Corporation	\$2.32	\$2.83	\$2.77
Income from discontinued operations	0.04	3.16	0.80
Net income attributable to Cabot Corporation	\$2.36	\$5.99	\$3.57

<sup>(1)</sup> Participating securities consist of shares of unvested restricted stock, vested restricted stock awards held by employees in which Cabot has a security interest, and unvested time-based restricted stock units.

Undistributed earnings are the earnings which remain after dividends declared during the period are assumed to be distributed to the common and participating shareholders. Undistributed earnings are allocated to common and participating shareholders on the same basis as dividend distributions. The calculation of undistributed earnings is as follows:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
<b>Calculation of undistributed earnings:</b>			
Net income attributable to Cabot Corporation	\$153	\$388	\$236
Less: Dividends declared on common stock	51	49	46
Less: Dividends and dividend equivalents to participating securities	—	—	1
Undistributed earnings	<u>\$102</u>	<u>\$339</u>	<u>\$189</u>
<b>Allocation of undistributed earnings:</b>			
Undistributed earnings allocated to common shareholders	\$101	\$336	\$187
Undistributed earnings allocated to participating securities	1	3	2
Undistributed earnings	<u>\$102</u>	<u>\$339</u>	<u>\$189</u>

(2) Undistributed earnings are adjusted for the assumed distribution of dividends to the dilutive securities, which are described in (3) below, and then reallocated to participating securities.

(3) Represents incremental shares of common stock from the (i) assumed exercise of stock options issued under Cabot's equity incentive plans; (ii) assumed issuance of shares to employees pursuant to the Company's Supplemental Retirement Savings Plan; and (iii) assumed issuance of shares for outstanding and achieved performance-based stock unit awards issued under Cabot's equity incentive plans using the treasury stock method. For fiscal 2013, 2012 and 2011, 301,328, 395,532 and 253,000 incremental shares of common stock were not included in the calculation of diluted earnings per share because the inclusion of these shares would have been antidilutive.

#### Note Q. Income Taxes

Income (loss) from continuing operations before income taxes and equity in net earnings of affiliated companies was as follows:

	Years ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Income (loss) from continuing operations:			
Domestic	\$ 35	\$ 13	\$ (25)
Foreign	170	232	228
Total	<u>\$ 205</u>	<u>\$ 245</u>	<u>\$ 203</u>

Tax provision (benefit) for income taxes consisted of the following:

	Years ended September 30		
	2013	2012	2011
	(Dollars in millions)		
U.S. federal and state:			
Current	\$ (3)	\$ (1)	\$ (7)
Deferred	(8)	(8)	(51)
Total	(11)	(9)	(58)
Foreign:			
Current	70	62	57
Deferred	(1)	2	7
Total	69	64	64
Total U.S. and foreign	\$ 58	\$ 55	\$ 6

The provision (benefit) for income taxes differed from the provision for income taxes as calculated using the U.S. statutory rate as follows:

	Years ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Computed tax expense at the federal statutory rate	\$ 72	\$ 86	\$ 70
Foreign income:			
Impact of taxation at different rates, repatriation and other	(27)	(29)	(29)
Impact of credit for extraordinary repatriation	—	—	(24)
Impact of investment incentive credits	(1)	—	(2)
Impact of foreign losses for which a current tax benefit is not available	9	5	6
Impact of non-deductible net currency losses	18	—	—
U.S. and state benefits from research and experimentation activities	(4)	(2)	(3)
Tax audit settlements	(6)	(2)	(12)
Reversal of state tax valuation allowance	—	(8)	—
Permanent and other differences	(4)	5	—
State taxes, net of federal effect	1	—	—
Total	\$ 58	\$ 55	\$ 6

Significant components of deferred income taxes were as follows:

	September 30	
	2013	2012
	(Dollars in millions)	
Deferred tax assets:		
Deferred expenses	\$ 29	\$ 13
Other	28	36
Pension and other benefits	71	84
Net operating loss carry-forwards	187	194
Foreign tax credit carry-forwards	49	12
R&D credit carry-forwards	28	27
Other business credit carry-forwards	32	31
Subtotal	424	397
Valuation allowances	(166)	(169)
Total deferred tax assets	\$ 258	\$ 228
Deferred tax liabilities:		
Intangible assets	\$ (28)	\$ (10)
Inventory	—	(2)
Property, plant and equipment	(149)	(141)
Unremitted earnings of non-U.S. subsidiaries	—	(11)
Total deferred tax liabilities	\$ (177)	\$ (164)

Beginning in fiscal year 2013, Cabot presented gross deferred tax assets and liabilities on a jurisdictional basis for major balance sheet captions. Previously, Cabot presented such amounts separately by jurisdiction on an asset grouping basis. The fiscal 2012 presentation has been changed to conform to Cabot's current presentation.

In the fiscal 2013 tax provision, Cabot recorded \$3 million of net tax charges including a \$13 million foreign currency charge, offset by \$10 million of net tax benefit related to tax settlements, renewal of the U.S. research and experimentation credit, and other miscellaneous tax items.

In the fiscal 2012 tax provision, Cabot recorded \$11 million of net tax benefits including an \$8 million state tax benefit from the release of a valuation allowance and \$3 million related to settlements and other miscellaneous tax items.

In the fiscal 2011 tax provision, Cabot recorded \$38 million net tax benefits including \$24 million from the repatriation of high taxed income and \$14 million related to tax settlements, the renewal of the U.S. research and experimentation credit, and investment incentive tax credits.

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Approximately \$807 million of net operating loss carryforwards (“NOLs”) and \$108 million of other tax credit carryforwards remain at September 30, 2013. The benefits of these carryforwards are dependent upon taxable income during the carryforward period in the jurisdictions where they arose. Accordingly, a valuation allowance has been provided where management has determined that it is more likely than not that the carryforwards will not be utilized. The following table provides detail surrounding the expiration dates of these carryforwards:

	NOLs	Credits
	(Dollars in millions)	
Expiration periods		
2014 to 2020	\$ 391	\$ 18
2021 and thereafter	83	70
Indefinite carry-forwards	333	20
Total	<u>\$ 807</u>	<u>\$ 108</u>

As of September 30, 2013, provisions have not been made for U.S. income taxes or non-U.S. withholding taxes on approximately \$1.18 billion of undistributed earnings of non-U.S. subsidiaries, as these earnings are considered indefinitely reinvested. Cabot continually reviews the financial position and forecasted cash flows of its U.S. consolidated group and foreign subsidiaries in order to reaffirm the Company’s intent and ability to continue to indefinitely reinvest earnings of its foreign subsidiaries or whether such earnings will need to be repatriated in the foreseeable future. Such review encompasses not only operational needs but also future capital investments. From time to time, however, the Company’s intentions relative to specific indefinitely invested amounts change because of certain unique circumstances. For example, in 2011, the Company remitted certain high taxed earnings that had previously been considered indefinitely reinvested in order to preserve a tax benefit in advance of a tax law change. These earnings could become subject to U.S. income taxes and non-U.S. withholding taxes if they were remitted as dividends, were loaned to Cabot Corporation or a U.S. subsidiary, or if Cabot should sell its stock in the subsidiaries.

As of September 30, 2013, Cabot has net deferred tax assets of \$81 million, \$63 million of which are in the U.S. Management believes that the Company’s history of generating domestic profits provides adequate evidence that it is more likely than not that all of the U.S. net deferred tax assets will be realized in the normal course of business. U.S. income from continuing operations adjusted for U.S. permanent differences was a profit of \$70 million for the year ended September 30, 2013 and was a cumulative profit of \$243 million for the three years ended September 30, 2013 including dividends from non-U.S. subsidiaries.

Realization of deferred tax assets is dependent on achieving future taxable income over an extended period of time. As of September 30, 2013, the Company would need to generate approximately \$180 million in cumulative future U.S. taxable income at various times over approximately 20 years to realize all of its net U.S. deferred tax assets. The Company reviews its forecast in relation to actual results and expected trends on a quarterly basis. Failure to achieve operating income targets may change the Company’s assessment regarding the recoverability of Cabot’s deferred tax assets and such change could result in a valuation allowance being recorded against some or all of the Company’s deferred tax assets. Any increase in a valuation allowance would result in additional income tax expense, lower stockholders’ equity and could have a significant impact on Cabot’s earnings in future periods.

The valuation allowances at September 30, 2013 and 2012 represent management’s best estimate of the non-realizable portion of the deferred tax assets. The valuation allowance decreased by \$3 million in 2013 due to the expiration and utilization of net operating carryforwards in certain tax jurisdictions. The valuation allowance increased by \$31 million and \$12 million in fiscal years 2012 and 2011, respectively, due to the uncertainty of the ultimate realization of certain future tax benefits and net operating losses generated or acquired that are included in deferred tax assets.

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Cabot has filed its tax returns in accordance with the tax laws in each jurisdiction and recognizes tax benefits for uncertain tax positions when the position would more likely than not be sustained based on its technical merits and recognizes measurement adjustments when needed. As of September 30, 2013, the total amount of unrecognized tax benefits was \$50 million, of which \$34 million was recorded in the Company's Consolidated Balance Sheet and \$16 million of deferred tax assets, principally related to state net operating loss carry-forwards, have not been recorded. In addition, accruals of \$2 million and \$14 million have been recorded for penalties and interest, respectively, as of September 30, 2013 and \$3 million and \$15 million, respectively, as of September 30, 2012. Total penalties and interest recorded in the tax provision in the Consolidated Statement of Operations was \$3 million in each of fiscal years 2013, 2012, and 2011. If the unrecognized tax benefits were recognized at a given point in time, there would be approximately \$39 million favorable impact on the Company's tax provision before consideration of the impact of the potential need for valuation allowances.

A reconciliation of the beginning and ending amount of unrecognized tax benefits for fiscal 2013, 2012 and 2011 is as follows:

	Years ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Balance at beginning of the year	\$55	\$ 65	\$75
Additions based on tax provisions related to the current year	1	4	2
Additions for tax positions of prior years	2	—	1
Reductions for tax provisions of prior years	(5)	(10)	(2)
Reductions related to settlements	—	—	(4)
Reductions from lapse of statute of limitations	(3)	(4)	(7)
Balance at end of the year	<u>\$50</u>	<u>\$ 55</u>	<u>\$65</u>

Certain Cabot subsidiaries are under audit in jurisdictions outside of the U.S. In addition, certain statutes of limitations are scheduled to expire in the near future. It is reasonably possible that a further change in the unrecognized tax benefits may occur within the next twelve months related to the settlement of one or more of these audits or the lapse of applicable statutes of limitations; however, an estimated range of the impact on the unrecognized tax benefits cannot be quantified at this time.

Cabot files U.S. federal and state and non-U.S. income tax returns in jurisdictions with varying statutes of limitations. The 2007 through 2012 tax years generally remain subject to examination by the IRS and various tax years from 2004 through 2012 remain subject to examination by the respective state tax authorities. In significant non-U.S. jurisdictions, various tax years from 2001 through 2012 remain subject to examination by their respective tax authorities. As of September 30, 2013 Cabot's significant non-U.S. jurisdictions include Canada, China, France, Germany, Italy, Japan, and the Netherlands.

## Note R. Commitments and Contingencies

### Operating Lease Commitments

Cabot leases certain transportation vehicles, warehouse facilities, office space, machinery and equipment under cancelable and non-cancelable operating leases, most of which expire within ten years and may be renewed by Cabot. Escalation clauses, lease payments dependent on existing rates/indexes and other lease concessions are included in the minimum lease payments and such lease payments are recognized on a straight-line basis over the minimum lease term. Rent expense under such arrangements for fiscal 2013, 2012 and 2011 totaled \$23 million, \$15 million and \$19 million, respectively. Future minimum rental commitments under non-cancelable leases are as follows:

	(Dollars in millions)
2014	\$ 22
2015	18
2016	14
2017	9
2018	8
2019 and thereafter	29
Total future minimum rental commitments	<u>\$ 100</u>

### Other Long-Term Commitments

Cabot has entered into long-term purchase agreements primarily for the purchase of raw materials. Under certain of these agreements, the quantity of material being purchased is fixed, but the price paid changes as market prices change. Raw materials purchased under these agreements by segment for fiscal 2013, 2012 and 2011 are as follows:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Reinforcement Materials	\$371	\$312	\$340
Performance Materials	34	47	18
Purification Solutions <sup>(1)</sup>	34	4	N/A
Advanced Technologies	—	6	—
Other	2	1	—
Total	<u>\$441</u>	<u>\$370</u>	<u>\$358</u>

<sup>(1)</sup> The year ended September 30, 2012 includes two months of purchases for Norit.

Included in the table above are raw materials purchases from noncontrolling shareholders of consolidated subsidiaries. These purchases were \$150 million, \$116 million and \$134 million during fiscal 2013, 2012 and 2011, respectively, and accounts payable and accrued liabilities owed to noncontrolling shareholders as of September 30, 2013 and 2012, were \$11 million and \$13 million, respectively.

The purchase commitments for Reinforcement Materials, Performance Materials, Purification Solutions and Advanced Technologies covered by these agreements are with various suppliers and purchases are expected to take place as follows:

	Payments Due by Fiscal Year						
	2014	2015	2016	2017	2018	Thereafter	Total
	(Dollars in millions)						
Reinforcement Materials	\$326	\$293	\$226	\$183	\$178	\$ 2,793	\$3,999
Performance Materials	42	37	33	25	25	226	388
Purification Solutions	28	15	10	10	9	17	89
Advanced Technologies	2	2	1	1	1	1	8
Total	<u>\$398</u>	<u>\$347</u>	<u>\$270</u>	<u>\$219</u>	<u>\$213</u>	<u>\$ 3,037</u>	<u>\$4,484</u>



The dollar value of these commitments has been estimated using current market prices. As noted above, these will fluctuate based on time of purchase.

### ***Guarantee Agreements***

Cabot has provided certain indemnities pursuant to which it may be required to make payments to an indemnified party in connection with certain transactions and agreements. In connection with certain acquisitions and divestitures, Cabot has provided routine indemnities with respect to such matters as environmental, tax, insurance, product and employee liabilities. In connection with various other agreements, including service and supply agreements with customers, Cabot has provided indemnities for certain contingencies and routine warranties. Cabot is unable to estimate the maximum potential liability for these types of indemnities as a maximum obligation is not explicitly stated in most cases and the amounts, if any, are dependent upon the outcome of future contingent events, the nature and likelihood of which cannot be reasonably estimated. The duration of the indemnities vary, and in many cases are indefinite. Cabot has not recorded any liability for these indemnities in the consolidated financial statements, except as otherwise disclosed.

### ***Self-Insurance and Retention for Certain Contingencies***

The Company is partially self-insured for certain third-party liabilities globally, as well as workers' compensation and employee medical benefits in the United States. The third-party and workers' compensation liabilities are managed through a wholly-owned insurance captive and the related liabilities are included in the consolidated financial statements. The employee medical obligations are managed by a third-party provider and the related liabilities are included in the consolidated financial statements. To limit Cabot's potential liabilities for these risks, however, the Company purchases insurance from third-parties that provides individual and aggregate stop-loss protection. The aggregate self-insured liability in fiscal 2013 for combined U.S. third-party liabilities and U.S. workers' compensation was \$6 million, and the retention for medical costs in the United States is at most \$225,000 per person per annum.

### ***Contingencies***

Cabot is a defendant, or potentially responsible party, in various lawsuits and environmental proceedings wherein substantial amounts are claimed or at issue.

#### ***Environmental Matters***

As of September 30, 2013 and 2012, Cabot had \$5 million and \$7 million, respectively, on a discounted and undiscounted basis, reserved for environmental matters primarily related to divested businesses. In fiscal 2013 and 2012, there was \$2 million and \$3 million in accrued liabilities and \$3 million and \$4 million in other liabilities, respectively, in the Consolidated Balance Sheets for environmental matters. These amounts represent Cabot's best estimates of the probable costs likely to be incurred by Cabot at those sites where costs are reasonably estimable based on its analysis of the extent of clean up required, alternative clean up methods available, abilities of other responsible parties to contribute and its interpretation of laws and regulations applicable to each site. Cabot reviews the adequacy of this reserve as circumstances change at individual sites. Almost all of our reserves relate to environmental issues that are mature and have been investigated and studied, and, in many cases, are subject to agreed upon remediation plans. However, depending on the results of future testing, changes in risk assessment practices, remediation techniques and regulatory requirements, newly discovered conditions, and other factors, it is reasonably possible that we could incur additional costs in excess of environmental reserves currently recorded. Management estimates, based on the latest available information, that any such future environmental remediation costs in excess of amounts already recorded would be immaterial to the Company's consolidated financial statements.

Charges for environmental expense were less than \$1 million, \$3 million, and \$1 million in fiscal 2013, 2012 and 2011, respectively. Cash payments were \$2 million in each of fiscal 2013, 2012 and 2011 related to these environmental matters.

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The operation and maintenance component of the \$5 million reserve for environmental matters was \$3 million at September 30, 2013. Cabot expects to make payments of \$2 million in fiscal 2014, less than \$1 million in each of fiscal 2015 through fiscal 2018, and a total of less than \$1 million thereafter.

When deemed appropriate, the Company discounts its liability for environmental matters. A weighted average risk free rate of 3% was used for the environmental liability at September 30, 2013. The book value of the liabilities will be accreted up to the undiscounted liability value through interest expense over the expected period of cash flows. The accreted interest expense was less than \$1 million for each of fiscal 2013, 2012 and 2011.

In November 2013, Cabot entered into a Consent Decree with the United States Environmental Protection Agency ("EPA") and the Louisiana Department of Environmental Quality ("LDEQ") regarding Cabot's three carbon black manufacturing facilities in the United States. The Consent Decree will become effective once a public comment period has expired and it has been approved by the U.S. District Court for the Western District of Louisiana. This settlement is related to EPA's national enforcement initiative focused on the U.S. carbon black manufacturing sector alleging non-compliance with certain regulatory and permitting requirements under The Clean Air Act, including the New Source Review ("NSR") construction permitting requirements. Pursuant to this settlement, Cabot will pay a combined \$975,000 civil penalty to EPA and LDEQ, and fund \$450,000 in environmental mitigation projects in the three communities where the plants are located and install technology controls for sulfur dioxide and nitrogen oxide. The Company expects that the capital costs to install these controls will total approximately \$85 million and will be incurred over approximately six and one-half years. In addition, Cabot has agreed to certain best management practices ("BMPs") to control emissions of particulate matter at the three locations.

### **Other Matters**

#### *Respirator Liabilities*

Cabot has exposure in connection with a safety respiratory products business that a subsidiary acquired from American Optical Corporation ("AO") in an April 1990 asset purchase transaction. The subsidiary manufactured respirators under the AO brand and disposed of that business in July 1995. In connection with its acquisition of the business, the subsidiary agreed, in certain circumstances, to assume a portion of AO's liabilities, including costs of legal fees together with amounts paid in settlements and judgments, allocable to AO respiratory products used prior to the 1990 purchase by the Cabot subsidiary. In exchange for the subsidiary's assumption of certain of AO's respirator liabilities, AO agreed to provide to the subsidiary the benefits of: (i) AO's insurance coverage for the period prior to the 1990 acquisition and (ii) a former owner's indemnity of AO holding it harmless from any liability allocable to AO respiratory products used prior to May 1982.

Generally, these respirator liabilities involve claims for personal injury, including asbestosis, silicosis and coal worker's pneumoconiosis, allegedly resulting from the use of respirators that are claimed to have been negligently designed or labeled. Neither Cabot, nor its past or present subsidiaries, at any time manufactured asbestos or asbestos-containing products. At no time did this respiratory product line represent a significant portion of the respirator market.

The subsidiary transferred the business to Aearo Corporation ("Aearo") in July 1995. Cabot agreed to have the subsidiary retain certain liabilities associated with exposure to asbestos and silica while using respirators prior to the 1995 transaction so long as Aearo paid, and continues to pay, Cabot an annual fee of \$400,000. Aearo can discontinue payment of the fee at any time, in which case it will assume the responsibility for and indemnify Cabot against those liabilities which Cabot's subsidiary had agreed to retain. The Company anticipates that it will continue to receive payment of the \$400,000 fee from Aearo and thereby retain these liabilities for the foreseeable future. Cabot has no liability in connection with any products manufactured by Aearo after 1995.

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In addition to Cabot's subsidiary and as described above, other parties are responsible for significant portions of the costs of respirator liabilities, leaving Cabot's subsidiary with a portion of the liability in only some of the pending cases. These parties include Aearo, AO, AO's insurers, and another former owner and its insurers (collectively, with the Company's subsidiary, the "Payor Group").

As of both September 30, 2013 and 2012, there were approximately 42,000 claimants in pending cases asserting claims against AO in connection with respiratory products. Cabot has contributed to the Payor Group's defense and settlement costs with respect to a percentage of pending claims depending on several factors, including the period of alleged product use. In order to quantify Cabot's estimated share of liability for pending and future respirator liability claims, Cabot has engaged, through counsel, the assistance of Hamilton, Rabinovitz & Alschuler, Inc. ("HR&A"), a leading consulting firm in the field of tort liability valuation. The methodology developed by HR&A addresses the complexities surrounding Cabot's potential liability by making assumptions about future claimants with respect to periods of asbestos, silica and coal mine dust exposure and respirator use. Using those and other assumptions, HR&A estimates the number of future asbestos, silica and coal mine dust claims that will be filed and the related costs that would be incurred in resolving both currently pending and future claims. On this basis, HR&A then estimates the net present value of the share of these liabilities that reflect Cabot's period of direct manufacture and Cabot's contractual obligations. Based on the HR&A estimates, Cabot has recorded on a discounted basis an \$11 million reserve (\$15 million on an undiscounted basis) to accrue for its estimated share of liability for pending and future respirator claims. The Company made payments related to its respirator liability of \$2 million in fiscal 2013, \$2 million in fiscal 2012 and \$5 million in fiscal 2011.

The Company's current estimate of the cost of its share of existing and future respirator liability claims is based on facts and circumstances existing at this time. Developments that could affect the Company's estimate include, but are not limited to, (i) significant changes in the number of future claims, (ii) changes in the rate of dismissals without payment of pending silica and non-malignant asbestos claims, (iii) significant changes in the average cost of resolving claims, (iv) significant changes in the legal costs of defending these claims, (v) changes in the nature of claims received, (vi) changes in the law and procedure applicable to these claims, (vii) the financial viability of members of the Payor Group, (viii) a change in the availability of AO's insurance coverage or the indemnity provided by AO's former owner, (ix) changes in the allocation of costs among the Payor Group, and (x) a determination that the assumptions that were used to estimate the Company's share of liability are no longer reasonable. The Company cannot determine the impact of these potential developments on its current estimate of its share of liability for these existing and future claims. Accordingly, the actual amount of these liabilities for existing and future claims could be different than the reserved amount.

The \$11 million liability for respirator claims is recognized on a discounted basis using a discount rate of 5%, which represents management's best estimate of the risk free rate to apply to the cash flow payments of the liability that are projected through 2065. The total expected aggregate undiscounted amount of future payments is \$15 million. Cabot estimates payments of approximately \$2 million in each of fiscal 2014 and 2015, \$1 million in each of fiscal 2016, 2017 and 2018, and a total of \$8 million in fiscal 2019 through 2065. The book value of the liabilities will be accreted up to the undiscounted liability value through interest expense over the expected cash flow period, which was less than \$1 million in fiscal 2013. If the timing of Cabot's actual payments made for respirator claims differs significantly from the Company's estimated payment schedule, and the Company determines that it can no longer reasonably predict the timing of such payments, Cabot then could be required to record the reserve amount on an undiscounted basis on its consolidated balance sheets, causing an immediate impact to earnings.

*Other*

The Company has various other lawsuits, claims and contingent liabilities arising in the ordinary course of its business and with respect to the Company's divested businesses. In the opinion of the

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Company, although final disposition of some or all of these other suits and claims may impact the Company's financial statements in a particular period, they are not expected in the aggregate to have a material adverse effect on the Company's financial position.

**Note S. Concentration of Credit Risk**

Credit risk represents the loss that would be recognized if counterparties failed to completely perform as contracted. Financial instruments that subject Cabot to credit risk consist principally of cash and cash equivalents, investments, trade receivables, notes receivable from sale of business (\$214 million) and derivatives. Cabot maintains financial instruments with major banks and financial institutions. The Company has not experienced any material credit losses related to these instruments held at these financial institutions. Furthermore, concentrations of credit risk exist for groups of customers when they have similar economic characteristics that would cause their ability to meet contractual obligations to be similarly affected by changes in economic or other conditions.

No customer individually represented 10% or more of consolidated net sales for fiscal 2013, 2012 and 2011.

Tire manufacturers comprise a significant portion of Cabot's trade receivable balance. The accounts receivable balance for these significant customers as a group are as follows:

	September 30	
	2013	2012
	(Dollars in millions)	
Tire manufacturers	\$ 298	\$ 346

Cabot has not experienced significant losses in the past from these customers. Cabot monitors its exposure to customers to manage potential credit losses.

**Note T. Financial Information by Segment & Geographic Area**

***Segment Information***

The Company identifies a business as an operating segment if: i) it engages in business activities from which it may earn revenues and incur expenses; ii) its operating results are regularly reviewed by the Chief Operating Decision maker (CODM) to make decisions about resources to be allocated to the segment and assess its performance; and iii) it has available discrete financial information. The Company has determined that all of its businesses are operating segments. The CODM reviews financial information at the operating segment level to allocate resources and to assess the operating results and financial performance for each operating segment. Operating segments are aggregated into a reportable segment if the operating segments are determined to have similar economic characteristics and if the operating segments are similar in the following areas: i) nature of products and services; ii) nature of production processes; iii) type or class of customer for their products and services; iv) methods used to distribute the products or provide services; and v) if applicable, the nature of the regulatory environment.

The Company has four reportable segments: Reinforcement Materials, Performance Materials, Advanced Technologies and Purification Solutions. Reinforcement Materials represents our Rubber Blacks Business. Purification Solutions represents our Activated Carbon Business. Performance Materials is an aggregation of the Specialty Carbon and Compounds and Fumed Metal Oxides Businesses, which are similar in terms of economic characteristics, nature of products, processes, customer class and product distribution methods.

The Company has combined and disclosed five of its operating segments (Specialty Fluids, Inkjet, Aerogel, Elastomer Composites and Security Materials) into an other segment labeled "Advanced Technologies".

Reportable segment operating profit (loss) before interest and taxes ("Segment EBIT") is presented for each reportable segment in the financial information by the reportable segment table below on the

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line entitled Income (loss) from continuing operations before taxes. Segment EBIT excludes certain items, meaning items considered by management to be unusual and not representative of segment results. In addition, Segment EBIT includes Equity in net income of affiliated companies, net of tax, the full operating results of a contractual joint venture in Purification Solutions, royalties paid by equity affiliates, Net income attributable to noncontrolling interests, net of tax, and discounting charges for certain Notes receivable, but excludes Interest expense, foreign currency transaction gains and losses, interest income, dividend income, unearned revenue, the effects of LIFO accounting for inventory, and unallocated general and corporate costs. Segment assets exclude cash, short-term investments, cost investments, income taxes receivable, deferred taxes and headquarters' assets, which are included in unallocated and other. Expenditures for additions to long-lived assets include total equity and other investments (including available-for-sale securities) and property, plant and equipment.

#### *Reinforcement Materials*

Rubber blacks are used in tires and industrial products. These products have traditionally been used in the tire industry as a rubber reinforcing agent and are also used as a performance additive. In industrial products such as hoses, belts, extruded profiles and molded goods, rubber blacks are used to improve the physical performance of the product.

#### *Performance Materials*

Performance Materials is comprised of two businesses that sell the following products: specialty grades of carbon black and thermoplastic concentrates and compounds (the Specialty Carbons and Compounds Business); and fumed silica, fumed alumina and dispersions thereof (the Fumed Metal Oxides Business). The net sales from each of these businesses for fiscal 2013, 2012 and 2011 are as follows:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Specialty Carbons and Compounds	\$ 622	\$ 664	\$ 626
Fumed Metal Oxides	282	250	254
Total Performance Materials	<u>\$ 904</u>	<u>\$ 914</u>	<u>\$ 880</u>

Cabot's specialty grades of carbon black are used to impart color, provide rheology control, enhance conductivity and static charge control, provide UV protection, enhance mechanical properties, and provide formulation flexibility through surface treatment. These products are used in a wide variety of applications, such as inks, coatings, cables, pipes, toners and electronics. In addition, Cabot manufactures and sources thermoplastic concentrates and compounds that are marketed to the plastics industry.

Fumed silica is an ultra-fine, high-purity particle used as a reinforcing, thickening, abrasive, thixotropic, suspending or anti-caking agent in a wide variety of products produced for the automotive, construction, microelectronics, and consumer products industries. These products include adhesives, sealants, cosmetics, inks, toners, silicone rubber, coatings, polishing slurries and pharmaceuticals. Fumed alumina, also an ultra-fine, high-purity particle, is used as an abrasive, absorbent or barrier agent in a variety of products, such as inkjet media, lighting, coatings, cosmetics and polishing slurries.

### Advanced Technologies

The net sales from each of the Advanced Technologies businesses are as follows::

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Inkjet Colorants	\$ 64	\$ 66	\$ 65
Aerogel	21	18	24
Security Materials	7	9	11
Elastomer Composites	29	23	17
Specialty Fluids	101	94	69
Total Advanced Technologies	<u>\$ 222</u>	<u>\$ 210</u>	<u>\$ 186</u>

The Inkjet Colorants Business produces and sells aqueous inkjet colorants primarily to the inkjet printing market. The Company's inkjet colorants are high-quality pigment-based black and color dispersions based on Cabot's patented surface modification technology. The dispersions are used in aqueous inkjet inks to impart color (optical density or chroma), sharp print characteristics and durability (waterfastness, lightfastness and rub resistance) while maintaining high printhead reliability. Cabot's inkjet colorants serve various inkjet printing applications, including small office and home office, corporate office, and commercial printing, as well as other niche applications that require a high level of dispersibility and colloidal stability. The Company also sells inks with its pigment based colorant dispersions into the emerging commercial printing segment for digital print.

Aerogel is a hydrophobic, silica-based particle with a high surface area that is used in a variety of thermal insulation and specialty chemical applications. In the building and construction industry, the product is used in insulative sprayable plasters and composite building products, as well as translucent skylight, window, wall and roof systems for insulating eco-daylighting applications. In the oil and gas industry, aerogel is used to insulate subsea pipelines. In the specialty chemicals industry, the product is used to provide matte finishing, insulating and thickening properties for use in a variety of applications. These applications include incorporation of aerogel into highly thermal insulative coatings formulations for safe touch and improved energy efficiency. The Company continues to focus on application and market development activities for use of aerogel in these and other new applications.

The principal area of commercial focus for the Security Materials Business is in developing covert taggants for a broad range of anti-counterfeiting security applications, including brand security, currency, tax stamps, identification and fuel markers. Covert taggants are invisible, unique markers that are added to products to determine their authenticity through the use of custom detectors or readers. The Company's taggants are manufactured using a proprietary process, which produces highly uniform materials with unique signatures.

The Elastomer Composites Business has developed elastomer composite products that are compounds of natural latex rubber and carbon black made by a patented liquid phase process. These compounds improve abrasion/wear resistance, reduce fatigue and reduce rolling resistance compared to natural rubber/carbon black compounds made by conventional methods. These products are targeted primarily for tire applications.

The Specialty Fluids Business principally produces and markets cesium formate as a drilling and completion fluid for use primarily in high pressure and high temperature oil and gas well construction. Cesium formate products are solids-free, high-density fluids that have a low viscosity, enabling safe and efficient well construction and workover operations. The fluid is resistant to high temperatures, minimizes damage to producing reservoirs and is readily biodegradable in accordance with testing guidelines set by the Organization for Economic Cooperation and Development. In a majority of applications, cesium formate is blended with other formates or products. Income from continuing operations before taxes for the Specialty Fluids Business was \$46 million, \$44 million, and \$22 million in fiscal 2013, 2012, and 2011, respectively. Total assets were \$110 million, \$111 million, and \$101 million in fiscal years 2013, 2012 and

2011, respectively. Capital expenditures were \$5 million, \$5 million, and \$3 million in fiscal years 2013, 2012 and 2011, respectively. Depreciation and amortization was \$2 million for fiscal years 2013, 2012, and 2011. There was no equity in earnings of affiliated companies related to the Specialty Fluids Business for fiscal years 2013, 2012, and 2011.

*Purification Solutions*

The Company's activated carbon products are typically used for the purification of water, air, food and beverages, pharmaceuticals and other liquids and gases, as either a colorant or a decoloring agent in the production of products for food and beverage applications and as a chemical carrier in slow release applications. In gas and air applications, one of the uses of activated carbon is for the removal of mercury in flue gas streams. In certain applications, used activated carbon can be reactivated for further use by removing the contaminants from the pores. In addition to activated carbon production and reactivation, the Company also provides activated carbon solutions through on-site equipment and services, including delivery systems for activated carbon injection in coal-fired utilities, mobile water filter units and carbon reactivation services. Fiscal 2013 Purification Solutions Segment EBIT includes an allocation of corporate administrative and functional support costs. In the prior year, these allocations were reflected in unallocated corporate costs and other segment results.

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Financial information by reportable segment is as follows:

	Reinforcement Materials	Performance Materials	Advanced Technologies	Purification Solutions	Segment Total	Unallocated and Other <sup>(1), (3)</sup>	Consolidated Total
(Dollars in millions)							
<b>Years Ended September 30</b>							
<b>2013</b>							
Revenues from external customers <sup>(2)</sup>	\$ 1,902	\$ 904	\$ 222	\$ 348	\$3,376	\$ 87	\$ 3,463
Depreciation and amortization	81	49	10	54	194	(4)	190
Equity in earnings of affiliated companies	9	2	—	4	15	(4)	11
Income (loss) from continuing operations before taxes <sup>(3)</sup>	188	132	68	(4)	384	(179)	205
Assets <sup>(4)</sup>	1,512	688	198	1,388	3,786	447	4,233
Total expenditures for additions to long-lived assets <sup>(5)</sup>	172	46	5	38	261	3	264
<b>2012</b>							
Revenues from external customers <sup>(2)</sup>	\$ 2,019	\$ 914	\$ 210	\$ 61	\$3,204	\$ 96	\$ 3,300
Depreciation and amortization	82	47	13	8	150	6	156
Equity in earnings of affiliated companies	9	1	—	1	11	—	11
Income (loss) from continuing operations before taxes <sup>(3)</sup>	227	128	49	5	409	(164)	245
Assets <sup>(4)</sup>	1,527	717	209	1,433	3,886	513	4,399
Total expenditures for additions to long-lived assets <sup>(5)</sup>	163	87	16	350	616	6	622
<b>2011</b>							
Revenues from external customers <sup>(2)</sup>	\$ 1,952	\$ 880	\$ 186	\$ N/A	\$3,018	\$ 84	\$ 3,102
Depreciation and amortization	80	37	14	N/A	131	8	139
Equity in earnings of affiliated companies	7	1	—	N/A	8	—	8
Income (loss) from continuing operations before taxes <sup>(3)</sup>	183	140	31	N/A	354	(151)	203
Assets <sup>(4)</sup>	1,509	661	191	N/A	2,361	780	3,141
Total expenditures for additions to long-lived assets <sup>(5)</sup>	126	99	10	N/A	235	6	241

<sup>(1)</sup> Unallocated and other includes certain items and eliminations necessary to reflect management's reporting of operating segment results. These items are reflective of the segment reporting presented to the Chief Operating Decision Maker.



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- (2) Unallocated and other reflects royalties paid by equity affiliates, external shipping and handling fees, the impact of the corporate adjustment for unearned revenue and Notes receivable. See table below:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Royalties paid by equity affiliates, other operating revenues, the impact of the corporate adjustment for unearned revenue, unconsolidated equity affiliates and discounting charges for certain Notes Receivable	\$ 5	\$ 11	\$ (2)
Shipping and handling fees	82	85	86
Total	<u>\$ 87</u>	<u>\$ 96</u>	<u>\$ 84</u>

- (3) Income (loss) from continuing operations before taxes for Unallocated and Other includes:

	Years Ended September 30		
	2013	2012	2011
	(Dollars in millions)		
Interest expense	\$ (62)	\$ (46)	\$ (39)
Total certain items, pre-tax <sup>(a)</sup>	(56)	(51)	(19)
Equity in earnings of affiliated companies, net of tax <sup>(b)</sup>	(11)	(11)	(8)
Unallocated corporate costs <sup>(c)</sup>	(49)	(56)	(53)
General unallocated expense <sup>(d)</sup>	(1)	—	(32)
Total	<u>\$ (179)</u>	<u>\$ (164)</u>	<u>\$ (151)</u>

(a) Certain items are items that management does not consider to be representative of operating segment results and they are, therefore, excluded from Segment EBIT. Certain items, pre-tax, for fiscal 2013 primarily include \$37 million related to global restructuring activities, \$21 million for acquisition related charges (consisting of \$10 million for certain other one-time integration costs and \$11 million of additional charges related to acquisition accounting adjustments for the acquired inventory) and \$1 million for environmental reserves offset by \$3 million of certain foreign currency gains recorded by foreign subsidiaries. Certain items, pre-tax, for fiscal 2012 primarily include \$17 million related to global restructuring activities, \$26 million for acquisition related charges (consisting of \$14 million of legal and professional fees, \$3 million for certain other one-time integration costs and \$9 million of additional charges related to acquisition accounting adjustments for the acquired inventory), \$4 million for environmental and legal reserves, and a \$4 million addition in the reserve for respirator claims. Certain items, pre-tax, for fiscal 2011 primarily include charges for global restructuring activities discussed in Note O.

(b) Equity in earnings of affiliated companies, net of tax, is included in Segment EBIT and is removed from Unallocated and other to reconcile to income (loss) from operations before taxes.

(c) Unallocated corporate costs are not controlled by the segments and primarily benefit corporate interests.

(d) General unallocated expense consists of gains (losses) arising from foreign currency transactions, net of other foreign currency risk management activities, the impact of accounting for certain inventory on a LIFO basis, the profit or loss related to the corporate adjustment for unearned revenue, and the impact of including the full operating results of an equity affiliate in Purification Solutions segment EBIT. Additionally, for fiscal 2011, this amount included a \$3 million charge related to a change in the net worth tax regulations in Colombia, and \$3 million related to a portion of the benefit from a legal judgment.

- (4) Unallocated and Other assets includes cash, marketable securities, cost investments, income taxes receivable, deferred taxes, headquarters' assets, and current and non-current assets held for sale.

- (5) Expenditures for additions to long-lived assets include total equity and other investments (including available-for-sale securities) and property, plant and equipment.

### Geographic Information

Sales are attributed to the United States and to all foreign countries based on the location from which the sale originated. Revenues from external customers and long-lived assets attributable to an individual country, other than the United States, China and Netherlands, were not material for disclosure.

Revenues from external customers and long-lived asset information by geographic area are summarized as follows:

	United States	China	Netherlands	Other Foreign Countries	Consolidated Total
	(Dollars in millions)				
<b>Years Ended September 30,</b>					
<b>2013</b>					
Revenues from external customers	\$ 825	\$ 558	\$ 224	\$ 1,856	\$ 3,463
Net property, plant and equipment	\$ 493	\$ 385	\$ 211	\$ 516	\$ 1,605
<b>2012</b>					
Revenues from external customers	\$ 695	\$ 543	\$ 131	\$ 1,931	\$ 3,300
Net property, plant and equipment	\$ 486	\$ 305	\$ 208	\$ 553	\$ 1,552
<b>2011</b>					
Revenues from external customers	\$ 589	\$ 554	\$ 115	\$ 1,844	\$ 3,102
Net property, plant and equipment	\$ 233	\$ 274	\$ 45	\$ 484	\$ 1,036

### Note U. Unaudited Quarterly Financial Information

Unaudited financial results by quarter for fiscal 2013 and 2012 are summarized below:

	Quarter Ended				Year
	December	March	June	September	
	(Dollars in millions, except per share amounts)				
<b>Fiscal 2013</b>					
<b>Consolidated Net Income</b>					
Net sales and other operating revenues	\$ 820	\$ 842	\$ 903	\$ 898	\$3,463
Gross profit	147	144	177	168	636
Selling and administrative expenses	73	77	73	76	299
Research and technical expenses	19	18	18	19	74
Income from operations	55	49	86	73	263
Net interest expense and other charges	(14)	(13)	(13)	(18)	(58)
Income from continuing operations before income taxes and equity in earnings of affiliated companies	41	36	73	55	205
Provision for income taxes	(19)	(16)	(16)	(7)	(58)
Equity in earnings of affiliated companies, net of tax	3	3	3	2	11
Income from discontinued operations, net of tax	(1)	—	2	1	2
Net income	24	23	62	51	160
Net income attributable to noncontrolling interests, net of tax	4	(4)	3	4	7
Net income attributable to Cabot Corporation	\$ 20	\$ 27	\$ 59	\$ 47	\$ 153
Income per share—basic:					
Income from continuing operations	\$ 0.33	\$0.43	\$0.86	\$ 0.72	\$ 2.34
Income from discontinued operations	(0.02)	—	0.04	0.02	0.04
Net income attributable to Cabot Corporation	\$ 0.31	\$0.43	\$0.90	\$ 0.74	\$ 2.38
Income per share—diluted:					
Income from continuing operations	\$ 0.33	\$0.42	\$0.86	\$ 0.71	\$ 2.32
Income from discontinued operations	(0.02)	—	0.04	0.02	0.04
Net income attributable to Cabot Corporation	\$ 0.31	\$0.42	\$0.90	\$ 0.73	\$ 2.36

	Quarter Ended				
	December	March	June	September	Year
	(Dollars in millions, except per share amounts)				
<b>Fiscal 2012</b>					
<b>Consolidated Net Income</b>					
Net sales and other operating revenues	\$ 762	\$ 844	\$ 846	\$ 848	\$3,300
Gross profit	143	173	175	157	648
Selling and administrative expenses	65	66	68	86	285
Research and technical expenses	17	20	17	19	73
Income from operations	61	87	90	52	290
Net interest expense and other charges	(6)	(11)	(12)	(16)	(45)
Income from continuing operations before taxes and equity earnings of affiliated companies	55	76	78	36	245
Provision for income taxes	(16)	(23)	(16)	—	(55)
Equity in earnings of affiliated companies	1	3	4	3	11
Income from discontinued operations, net of tax	11	189	4	1	205
Net income	51	245	70	40	406
Net income attributable to noncontrolling interests, net of tax	5	5	4	4	18
Net income attributable to Cabot Corporation	\$ 46	\$ 240	\$ 66	\$ 36	\$ 388
Income per share—basic:					
Income from continuing operations	\$ 0.55	\$ 0.80	\$ 0.97	\$ 0.55	\$ 2.87
Income from discontinued operations	0.17	2.94	0.07	0.02	3.20
Net income attributable to Cabot Corporation	\$ 0.72	\$ 3.74	\$ 1.04	\$ 0.57	\$ 6.07
Income per share—diluted:					
Income from continuing operations	\$ 0.55	\$ 0.78	\$ 0.96	\$ 0.54	\$ 2.83
Income from discontinued operations	0.16	2.92	0.06	0.02	3.16
Net income attributable to Cabot Corporation	\$ 0.71	\$ 3.70	\$ 1.02	\$ 0.56	\$ 5.99

**REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

To the Board of Directors and Stockholders of Cabot Corporation  
Boston, Massachusetts

We have audited the accompanying consolidated balance sheets of Cabot Corporation and subsidiaries (the “Company”) as of September 30, 2013 and 2012, and the related consolidated statements of operations, comprehensive income, changes in stockholders’ equity and cash flows for each of the three years in the period ended September 30, 2013. These financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, such consolidated financial statements present fairly, in all material respects, the financial position of Cabot Corporation and subsidiaries as of September 30, 2013 and 2012, and the results of their operations and their cash flows for each of the three years in the period ended September 30, 2013, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the Company’s internal control over financial reporting as of September 30, 2013, based on the criteria established in *Internal Control —Integrated Framework (1992)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated November 27, 2013 expressed an unqualified opinion on the Company’s internal control over financial reporting.

/s/ Deloitte & Touche LLP

Boston, Massachusetts  
November 27, 2013

**REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

To the Board of Directors and Stockholders of Cabot Corporation  
Boston, Massachusetts

We have audited the internal control over financial reporting of Cabot Corporation and subsidiaries (the "Company") as of September 30, 2013, based on criteria established in *Internal Control—Integrated Framework (1992)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. 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 Annual 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 conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). 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.

A company's internal control over financial reporting is a process designed by, or under the supervision of, the company's principal executive and principal financial officers, or persons performing similar functions, and effected by the company's board of directors, management, and other personnel to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with 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 the inherent limitations of internal control over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may not be prevented or detected on a timely basis. Also, projections of any evaluation of the effectiveness of the internal control over financial reporting to future periods are subject to the risk that the controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of September 30, 2013, based on the criteria established in *Internal Control—Integrated Framework (1992)* issued by the Committee of Sponsoring Organizations of the Treadway Commission.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated financial statements as of and for the year ended September 30, 2013 of the Company and our report dated November 27, 2013 expressed an unqualified opinion on those financial statements.

/s/ Deloitte & Touche LLP

Boston, Massachusetts  
November 27, 2013

## PART II

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

None.

### Item 9A. *Controls and Procedures*

#### **Disclosure Controls and Procedures**

Cabot carried out an evaluation, under the supervision and with the participation of its management, including the Company's President and Chief Executive Officer and its Executive Vice President and Chief Financial Officer, of the effectiveness of the Company's disclosure controls and procedures pursuant to Rule 13a-15 under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), as of September 30, 2013. Based on that evaluation, Cabot's President and Chief Executive Officer and its Executive Vice President and Chief Financial Officer concluded that the Company's disclosure controls and procedures are effective with respect to the recording, processing, summarizing and reporting, within the time periods specified in the Securities and Exchange Commission's rules and forms, of information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act and such information is accumulated and communicated to management to allow timely decisions regarding required disclosure.

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

Cabot's management is responsible for establishing and maintaining adequate internal control over financial reporting for Cabot. Internal control over financial reporting is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act as a process designed by, or under the supervision of, a company's principal executive and principal financial officers, and effected by the company's board of directors, management and other personnel, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles and includes those policies and procedures that:

- Pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the company;
- 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
- 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 the 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 policies or procedures may deteriorate.

Cabot's management assessed the effectiveness of Cabot's internal control over financial reporting as of September 30, 2013 based on the framework established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) (1992). Based on this assessment, Cabot's management concluded that Cabot's internal control over financial reporting was effective as of September 30, 2013.

Cabot's internal control over financial reporting as of September 30, 2013 has been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report above.

**Changes in Internal Control Over Financial Reporting**

There were no changes in the Company's internal control over financial reporting that occurred during the Company's fiscal quarter ending September 30, 2013 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

**Item 9B. *Other Information***

None.

## PART III

### Item 10. **Directors, Executive Officers and Corporate Governance**

Certain information regarding our executive officers is included at the end of Part I of this annual report under the heading “Executive Officers of the Registrant.”

Cabot has adopted Global Ethics and Compliance Standards, a code of ethics that applies to all of the Company’s employees and directors, including the Chief Executive Officer, the Chief Financial Officer, the Controller and other senior financial officers. The Global Ethics and Compliance Standards are posted on our website, [www.cabot-corp.com](http://www.cabot-corp.com) (under the “Governance” caption under “About Cabot”). We intend to satisfy the disclosure requirement regarding any amendment to, or waiver of, a provision of the Global Ethics and Compliance Standards applicable to the Chief Executive Officer, the Chief Financial Officer, the Controller or other senior financial officers by posting such information on our website.

The other information required by this item will be included in our Proxy Statement for the 2014 Annual Meeting of Stockholders (“Proxy Statement”) and is herein incorporated by reference.

### Item 11. **Executive Compensation**

The information required by this item will be included in our Proxy Statement and is incorporated herein by reference.

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

The information relating to security ownership of certain beneficial owners of our common stock, and information relating to the security ownership of our management required by this item will be included in our Proxy Statement and is incorporated herein by reference.

The following table provides information as of September 30, 2013 about: (i) the number of shares of common stock that may be issued upon exercise of outstanding options and vesting of restricted stock units; (ii) the weighted-average exercise price of outstanding options; and (iii) the number of shares of common stock available for future issuance under our active plans: the 2009 Long-Term Incentive Plan and the Non-Employee Directors’ Stock Compensation Plan. All of our equity compensation plans have been approved by our stockholders.

Plan category	Number of securities to be issued upon exercise and vesting of options and restricted stock units (a) <sup>(1)</sup>	Weighted-average exercise price of outstanding options (b) <sup>(2)</sup>	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c) <sup>(3)</sup>
Equity compensation plans approved by security holders	2,777,961	\$ 26.93	3,616,781
Equity compensation plans not approved by security holders	N/A	N/A	N/A

<sup>(1)</sup> Includes (i) 1,635,369 shares issuable upon exercise of outstanding stock options, (ii) 579,062 shares issuable upon vesting of time-based restricted stock units, (iii) 252,534 shares issuable upon vesting of performance-based restricted stock units based upon the achievement of the annual financial performance metrics for the three years within the three-year performance period of the 2011 awards, the first two years within the three-year performance period of the 2012 awards, and the first year within the three-year performance period of the 2013 awards; and (iv) 310,997 shares issuable upon vesting of the performance-based stock units attributable to year three of the 2012 awards and years two and three of the 2013 awards, assuming Cabot performs at the maximum



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performance level in each of those years. If, instead, Cabot performs at the target level of performance in those years, a total of 207,331 shares would be issuable for year three of the 2012 awards and years two and three of the 2013 awards.

- (2) The weighted-average exercise price includes all outstanding stock options but does not include restricted stock units which do not have an exercise price.
- (3) Of these shares, (i) 3,475,509 shares remain available for future issuance under our 2009 Long-Term Incentive Plan, and (ii) 141,272 remain available for future issuance under our Non-Employee Directors' Stock Compensation Plan.

The other information required by this item will be included in our Proxy Statement and is incorporated herein by reference.

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

The information required by this item will be included in our Proxy Statement and is incorporated herein by reference.

**Item 14. *Principal Accounting Fees and Services***

The information required by this item will be included in our Proxy Statement and is incorporated herein by reference.

**PART IV****Item 15. Exhibits, Financial Statement Schedules**

(a) *Financial Statements.* See “Index to Financial Statements” under Item 8 on page 48 of this Form 10-K.

(b) *Exhibits.* (Certain exhibits not included in copies of the Form 10-K sent to stockholders.)

The exhibit numbers in the following list correspond to the numbers assigned to such exhibits in the Exhibit Table of Item 601 of Regulation S-K. Cabot will furnish to any stockholder, upon written request, any exhibit listed below, upon payment by such stockholder of the Company’s reasonable expenses in furnishing such exhibit.

<u>Exhibit Number</u>	<u>Description</u>
3(a)	Restated Certificate of Incorporation of Cabot Corporation effective January 9, 2009 (incorporated herein by reference to Exhibit 3.1 of Cabot’s Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2008, file reference 1-5667, filed with the SEC on February 9, 2009).
3(b)	The By-laws of Cabot Corporation as amended September 9, 2011 (incorporated herein by reference to Exhibit 3(b) of Cabot’s Annual Report on Form 10-K for the year ended September 30, 2011, file reference 1-5667, filed with the SEC on November 29, 2011).
4(a)(i)	Indenture, dated as of December 1, 1987, between Cabot Corporation and The First National Bank of Boston, Trustee (the “Indenture”) (incorporated herein by reference to Exhibit 4 of Amendment No. 1 to Cabot’s Registration Statement on Form S-3, Registration Statement No. 33-18883, filed with the SEC on December 10, 1987).
4(a)(ii)	First Supplemental Indenture, dated as of June 17, 1992, to the Indenture (incorporated herein by reference to Exhibit 4.3 of Cabot’s Registration Statement on Form S-3, Registration Statement No. 33-48686, filed with the SEC on June 18, 1992).
4(a)(iii)	Second Supplemental Indenture, dated as of January 31, 1997, between Cabot Corporation and State Street Bank and Trust Company, Trustee (incorporated herein by reference to Exhibit 4 of Cabot’s Quarterly Report on Form 10-Q for the quarterly period ended December 31, 1996, file reference 1-5667, filed with the SEC on February 14, 1997).
4(a)(iv)	Third Supplemental Indenture, dated as of November 20, 1998, between Cabot Corporation and State Street Bank and Trust Company, Trustee (incorporated herein by reference to Exhibit 4.1 of Cabot’s Current Report on Form 8-K, dated November 20, 1998, file reference 1-5667, filed with the SEC on November 20, 1998).
4(a)(v)	Indenture, dated as of September 21, 2009, between Cabot Corporation and U.S. Bank National Association, as Trustee (incorporated herein by reference to Exhibit 4.1 of Cabot’s Registration Statement on Form S-3 ASR, Registration Statement No. 333-162021, filed with the SEC on September 21, 2009).
4(a)(vi)	First Supplemental Indenture, dated as of September 24, 2009, between Cabot Corporation and U.S. Bank National Association, as Trustee (incorporated herein by reference to Exhibit 4.1 of Cabot’s Current Report on Form 8-K dated September 24, 2009, file reference 1-5667, filed with the SEC on September 24, 2009).
4(a)(vii)	Second Supplemental Indenture, dated as of July 12, 2012 between Cabot Corporation, as Issuer, and U.S. Bank National Association, as Trustee, including the form of Global Note attached as Annex A thereto, supplementing the Indenture dated as of September 21, 2009 (incorporated herein by reference to Exhibit 4.1 of Cabot’s Current Report on Form 8-K dated July 9, 2012, file reference 1-5667, filed with the SEC on July 12, 2012).

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<b>Exhibit Number</b>	<b>Description</b>
10(a)(i)	Credit Agreement, dated August 26, 2011, among Cabot Corporation, J.P. Morgan Chase Bank, N.A., J.P. Morgan Securities LLC, Citigroup Global Markets Inc., Citibank, N.A., Bank of America, N.A., and Mizuho Corporate Bank, Ltd., and the other lenders party thereto (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2012, file reference 1-5667, filed with the SEC on May 7, 2012).
10(a)(ii)	Documentation dated July 13, 2012 relating to the increase in the aggregate commitments available pursuant to the Credit Agreement, dated August 26, 2011, among Cabot Corporation, J.P. Morgan Chase Bank, N.A., J.P. Morgan Securities LLC, Citigroup Global Markets Inc., Citibank, N.A., Bank of America, N.A., and Mizuho Corporate Bank, Ltd. and the other lenders party thereto (incorporated herein by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2012, file reference 1-5667, filed with the SEC on August 6, 2012).
10(a)(iii)	First Amendment, dated December 12, 2012, to Credit Agreement dated August 26, 2011, by and among Cabot Corporation, the Designated Borrowers, J.P. Morgan Chase Bank, N.A., and Lenders Constituting Required Lenders (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2012, file reference 1-5667, filed with the SEC on February 8, 2013).
10(b)(i)*	2009 Long-Term Incentive Plan (incorporated herein by reference to Appendix B of Cabot's Proxy Statement on Schedule 14A relating to the 2012 Annual Meeting of Stockholders, file reference 1-5667, filed with the SEC on January 30, 2012).
10(b)(ii)*	Non-Employee Directors' Stock Compensation Plan (incorporated herein by reference to Appendix B of Cabot's Proxy Statement on Schedule 14A relating to the 2006 Annual Meeting of Stockholders, file reference 1-5667, filed with the SEC on January 30, 2006).
10(b)(iii)*	Cabot Corporation Short-Term Incentive Compensation Plan (incorporated herein by reference to Appendix A of Cabot's Proxy Statement on Schedule 14A relating to the 2011 Annual Meeting of Stockholders, file reference 1-5667, filed with the SEC on January 28, 2011).
10(b)(iv)*	2006 Long-Term Incentive Plan (incorporated herein by reference to Appendix B of Cabot's Proxy Statement on Schedule 14A relating to the 2006 Annual Meeting of Stockholders, file reference 1-5667, filed with the SEC on January 30, 2006).
10(c)	Note Purchase Agreement between John Hancock Mutual Life Insurance Company, State Street Bank and Trust Company, as trustee for the Cabot Corporation Employee Stock Ownership Plan, and Cabot Corporation, dated as of November 15, 1988 (incorporated by reference to Exhibit 10(c) of Cabot's Annual Report on Form 10-K for the year ended September 30, 1988, file reference 1-5667, filed with the SEC on December 29, 1988).
10(d)(i)*	Cabot Corporation Amended and Restated Supplemental Cash Balance Plan dated December 31, 2008 (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2008, file reference 1-5667, filed with the SEC on February 9, 2009).
10(d)(ii)*	Cabot Corporation Amended and Restated Supplemental Retirement Savings Plan dated December 31, 2008 (incorporated by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2008, file reference 1-5667, filed with the SEC on February 9, 2009).

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<b>Exhibit Number</b>	<b>Description</b>
10(d)(iii)*	Cabot Corporation Deferred Compensation Plan dated January 1, 1995 (incorporated herein by reference to Exhibit 10(e)(v) of Cabot's Annual Report on Form 10-K for the year ended September 30, 1995, file reference 1-5667, filed with the SEC on December 29, 1995).
10(d)(iv)*	Amendment 1997-I to Cabot Corporation Deferred Compensation Plan dated June 30, 1997 (incorporated herein by reference to Exhibit 10(d)(vi) of Cabot's Annual Report on Form 10-K for the year ended September 30, 1997, file reference 1-5667, filed with the SEC on December 24, 1997).
10(d)(v)*	Cabot Corporation Amended and Restated Deferred Compensation Plan dated July 13, 2007 (incorporated herein by reference to Exhibit 10(d)(viii) of Cabot's Annual Report on Form 10-K for the year ended September 30, 2007, file reference 1-5667, filed with the SEC on November 29, 2007).
10(d)(vi)*	Amendment No. 1 to Cabot Corporation Amended and Restated Deferred Compensation Plan dated November 9, 2007 (incorporated herein by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2007, file reference 1-5667, filed with the SEC on February 11, 2008).
10(d)(vii)*	Non-Employee Directors' Stock Deferral Plan dated July 14, 2006 (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2006, file reference 1-5667, filed with the SEC on August 9, 2006).
10(d)(viii)*	Amendment No. 1 to Cabot Corporation Non-Employee Directors' Stock Deferral Plan dated November 9, 2007 (incorporated herein by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2007, file reference 1-5667, filed with the SEC on February 11, 2008).
10(d)(ix)*	Amendment No. 2 to Cabot Corporation Amended and Restated Deferred Compensation Plan dated December 31, 2008 (incorporated herein by reference to Exhibit 10.5 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2008, file reference 1-5667, filed with the SEC on February 9, 2009).
10(e)*	Summary of Compensation for Non-Employee Directors (incorporated herein by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2012, file reference 1-5667, filed with the SEC on February 8, 2013).
10(f)	Asset Transfer Agreement, dated as of June 13, 1995, among Cabot Safety Corporation, Cabot Canada Ltd., Cabot Safety Limited, Cabot Corporation, Cabot Safety Holdings Corporation and Cabot Safety Acquisition Corporation (incorporated herein by reference to Exhibit 2(a) of Cabot Corporation's Current Report on Form 8-K dated July 11, 1995, file reference 1-5667, filed with the SEC on July 26, 1995).
10(g)*	Cabot Corporation Amended and Restated Senior Management Severance Protection Plan, dated March 9, 2012 (incorporated herein by reference to Exhibit 10.5 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2012, file reference 1-5667, filed with the SEC on May 7, 2012).
10(h)	Amended and Restated Sale and Purchase Agreement dated August 24, 2011 by and among Cabot Corporation, GAM International Pty Ltd, Global Advanced Metals USA, Inc., and Global Advanced Metals Pty Ltd, (incorporated herein by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2012, file reference 1-5667, filed with the SEC on May 7, 2012).

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Exhibit Number	Description
10(i)(i)*†	Form of Restricted Stock Unit Award Certificate under the Cabot Corporation 2009 Long-Term Incentive Plan.
10(i)(ii)*†	Form of Non-Qualified Stock Option Award Agreement under the Cabot Corporation 2009 Long-Term Incentive Plan.
21†	Subsidiaries of Cabot Corporation.
23†	Consent of Deloitte & Touche LLP.
31(i)†	Certification of Principal Executive Officer required by Rule 13a-14(a) or Rule 15d-14(a) of the Exchange Act.
31(ii)†	Certification of Principal Financial Officer required by Rule 13a-14(a) or Rule 15d-14(a) of the Exchange Act.
32††	Certifications of the Principal Executive Officer and Principal Financial Officer pursuant to 18 U.S.C. Section 1350.
101.INS†	XBRL Instance Document.
101.SCH†	XBRL Taxonomy Extension Schema Document.
101.CAL†	XBRL Taxonomy Calculation Linkbase Document.
101.DEF†	XBRL Taxonomy Extension Definition Linkbase Document.
101.LAB†	XBRL Taxonomy Label Linkbase Document.
101.PRE†	XBRL Taxonomy Presentation Linkbase Document.

\* Management contract or compensatory plan or arrangement.

† Filed herewith.

†† Furnished herewith.

Attached as Exhibit 101 to the report are the following documents formatted in XBRL (Extensible Business Reporting Language): (i) the Consolidated Statements of Operations for the years ended September 30, 2013, 2012, 2011; (ii) Consolidated Statements of Comprehensive Income for years ended September 30, 2013, 2012, or 2011. (iii) the Consolidated Balance Sheets at September 30, 2013 and September 30, 2012; (iv) the Consolidated Statement of Cash flows for the years ended September 30, 2013, 2012 and 2011; (v) the Consolidated Statement of Changes in Stockholders' Equity September 30, 2013, 2012 and 2011; and (vi) Notes to the Consolidated Financial Statements, September 30, 2013.

(c) *Schedules*. The Schedules have been omitted because they are not required or are not applicable, or the required information is shown in the financial statements or notes thereto.

## SIGNATURES

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

### CABOT CORPORATION

BY: /S/ PATRICK M. PREVOST  
**Patrick M. Prevost**  
President and Chief Executive Officer

Date: November 27, 2013

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

Signatures	Title	Date
<u>/S/ PATRICK M. PREVOST</u> Patrick M. Prevost	Director, President and Chief Executive Officer	November 27, 2013
<u>/S/ EDUARDO E. CORDEIRO</u> Eduardo E. Cordeiro	Executive Vice President and Chief Financial Officer (principal financial officer)	November 27, 2013
<u>/S/ JAMES P. KELLY</u> James P. Kelly	Vice President and Controller (principal accounting officer)	November 27, 2013
<u>/S/ JOHN F. O'BRIEN</u> John F. O'Brien	Director, Non-Executive Chairman of the Board	November 27, 2013
<u>/S/ JOHN S. CLARKESON</u> John S. Clarkeson	Director	November 27, 2013
<u>Juan Enriquez</u>	Director	
<u>/S/ GAUTAM S. KAJI</u> Gautam S. Kaji	Director	November 27, 2013
<u>/S/ WILLIAM C. KIRBY</u> William C. Kirby	Director	November 27, 2013
<u>/S/ RODERICK C.G. MACLEOD</u> Roderick C.G. MacLeod	Director	November 27, 2013
<u>/S/ HENRY F. MCCANCE</u> Henry F. McCance	Director	November 27, 2013
<u>/S/ JOHN K. MCGILLICUDDY</u> John K. McGillicuddy	Director	November 27, 2013

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Signatures	Title	Date
<hr/> <div>/S/ SUE H. RATAJ Sue H. Rataj</div> <hr/>	Director	November 27, 2013
<hr/> <div>/S/ RONALDO H. SCHMITZ Ronaldo H. Schmitz</div> <hr/>	Director	November 27, 2013
<hr/> <div>/S/ LYDIA W. THOMAS Lydia W. Thomas</div> <hr/>	Director	November 27, 2013
<hr/> <div>/S/ MARK S. WRIGHTON Mark S. Wrighton</div> <hr/>	Director	November 27, 2013

## EXHIBIT INDEX

<u>Exhibit Number</u>	<u>Description</u>
3(a)	Restated Certificate of Incorporation of Cabot Corporation effective January 9, 2009 (incorporated herein by reference to Exhibit 3.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2008, file reference 1-5667, filed with the SEC on February 9, 2009).
3(b)	The By-laws of Cabot Corporation as amended September 9, 2011 (incorporated herein by reference to Exhibit 3(b) of Cabot's Annual Report on Form 10-K for the year ended September 30, 2011, file reference 1-5667, filed with the SEC on November 29, 2011).
4(a)(i)	Indenture, dated as of December 1, 1987, between Cabot Corporation and The First National Bank of Boston, Trustee (the "Indenture") (incorporated herein by reference to Exhibit 4 of Amendment No. 1 to Cabot's Registration Statement on Form S-3, Registration Statement No. 33-18883, filed with the SEC on December 10, 1987).
4(a)(ii)	First Supplemental Indenture, dated as of June 17, 1992, to the Indenture (incorporated herein by reference to Exhibit 4.3 of Cabot's Registration Statement on Form S-3, Registration Statement No. 33-48686, filed with the SEC on June 18, 1992).
4(a)(iii)	Second Supplemental Indenture, dated as of January 31, 1997, between Cabot Corporation and State Street Bank and Trust Company, Trustee (incorporated herein by reference to Exhibit 4 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 1996, file reference 1-5667, filed with the SEC on February 14, 1997).
4(a)(iv)	Third Supplemental Indenture, dated as of November 20, 1998, between Cabot Corporation and State Street Bank and Trust Company, Trustee (incorporated herein by reference to Exhibit 4.1 of Cabot's Current Report on Form 8-K, dated November 20, 1998, file reference 1-5667, filed with the SEC on November 20, 1998).
4(a)(v)	Indenture, dated as of September 21, 2009, between Cabot Corporation and U.S. Bank National Association, as Trustee (incorporated herein by reference to Exhibit 4.1 of Cabot's Registration Statement on Form S-3 ASR, Registration Statement No. 333-162021, filed with the SEC on September 21, 2009).
4(a)(vi)	First Supplemental Indenture, dated as of September 24, 2009, between Cabot Corporation and U.S. Bank National Association, as Trustee (incorporated herein by reference to Exhibit 4.1 of Cabot's Current Report on Form 8-K dated September 24, 2009, file reference 1-5667, filed with the SEC on September 24, 2009).
4(a)(vii)	Second Supplemental Indenture, dated as of July 12, 2012 between Cabot Corporation, as Issuer, and U.S. Bank National Association, as Trustee, including the form of Global Note attached as Annex A thereto, supplementing the Indenture dated as of September 21, 2009 (incorporated herein by reference to Exhibit 4.1 of Cabot's Current Report on Form 8-K dated July 9, 2012, file reference 1-5667, filed with the SEC on July 12, 2012).
10(a)(i)	Credit Agreement, dated August 26, 2011, among Cabot Corporation, J.P. Morgan Chase Bank, N.A., J.P. Morgan Securities LLC, Citigroup Global Markets Inc., Citibank, N.A., Bank of America, N.A., and Mizuho Corporate Bank, Ltd., and the other lenders party thereto (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2012, file reference 1-5667, filed with the SEC on May 7, 2012).



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<b>Exhibit Number</b>	<b>Description</b>
10(a)(ii)	Documentation dated July 13, 2012 relating to the increase in the aggregate commitments available pursuant to the Credit Agreement, dated August 26, 2011, among Cabot Corporation, J.P. Morgan Chase Bank, N.A., J.P. Morgan Securities LLC, Citigroup Global Markets Inc., Citibank, N.A., Bank of America, N.A., and Mizuho Corporate Bank, Ltd. and the other lenders party thereto (incorporated herein by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2012, file reference 1-5667, filed with the SEC on August 6, 2012).
10(a)(iii)	First Amendment, dated December 12, 2012, to Credit Agreement dated August 26, 2011, by and among Cabot Corporation, the Designated Borrowers, J.P. Morgan Chase Bank, N.A., and Lenders Constituting Required Lenders (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2012, file reference 1-5667, filed with the SEC on February 8, 2013).
10(b)(i)*	2009 Long-Term Incentive Plan (incorporated herein by reference to Appendix B of Cabot's Proxy Statement on Schedule 14A relating to the 2012 Annual Meeting of Stockholders, file reference 1-5667, filed with the SEC on January 30, 2012).
10(b)(ii)*	Non-Employee Directors' Stock Compensation Plan (incorporated herein by reference to Appendix B of Cabot's Proxy Statement on Schedule 14A relating to the 2006 Annual Meeting of Stockholders, file reference 1-5667, filed with the SEC on January 30, 2006).
10(b)(iii)*	Cabot Corporation Short-Term Incentive Compensation Plan (incorporated herein by reference to Appendix A of Cabot's Proxy Statement on Schedule 14A relating to the 2011 Annual Meeting of Stockholders, file reference 1-5667, filed with the SEC on January 28, 2011).
10(b)(iv)*	2006 Long-Term Incentive Plan (incorporated herein by reference to Appendix B of Cabot's Proxy Statement on Schedule 14A relating to the 2006 Annual Meeting of Stockholders, file reference 1-5667, filed with the SEC on January 30, 2006).
10(c)	Note Purchase Agreement between John Hancock Mutual Life Insurance Company, State Street Bank and Trust Company, as trustee for the Cabot Corporation Employee Stock Ownership Plan, and Cabot Corporation, dated as of November 15, 1988 (incorporated by reference to Exhibit 10(c) of Cabot's Annual Report on Form 10-K for the year ended September 30, 1988, file reference 1-5667, filed with the SEC on December 29, 1988).
10(d)(i)*	Cabot Corporation Amended and Restated Supplemental Cash Balance Plan dated December 31, 2008 (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2008, file reference 1-5667, filed with the SEC on February 9, 2009).
10(d)(ii)*	Cabot Corporation Amended and Restated Supplemental Retirement Savings Plan dated December 31, 2008 (incorporated by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2008, file reference 1-5667, filed with the SEC on February 9, 2009).
10(d)(iii)*	Cabot Corporation Deferred Compensation Plan dated January 1, 1995 (incorporated herein by reference to Exhibit 10(e)(v) of Cabot's Annual Report on Form 10-K for the year ended September 30, 1995, file reference 1-5667, filed with the SEC on December 29, 1995).

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<b>Exhibit Number</b>	<b>Description</b>
10(d)(iv)*	Amendment 1997-I to Cabot Corporation Deferred Compensation Plan dated June 30, 1997 (incorporated herein by reference to Exhibit 10(d)(vi) of Cabot's Annual Report on Form 10-K for the year ended September 30, 1997, file reference 1-5667, filed with the SEC on December 24, 1997).
10(d)(v)*	Cabot Corporation Amended and Restated Deferred Compensation Plan dated July 13, 2007 (incorporated herein by reference to Exhibit 10(d)(viii) of Cabot's Annual Report on Form 10-K for the year ended September 30, 2007, file reference 1-5667, filed with the SEC on November 29, 2007).
10(d)(vi)*	Amendment No. 1 to Cabot Corporation Amended and Restated Deferred Compensation Plan dated November 9, 2007 (incorporated herein by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2007, file reference 1-5667, filed with the SEC on February 11, 2008).
10(d)(vii)*	Non-Employee Directors' Stock Deferral Plan dated July 14, 2006 (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2006, file reference 1-5667, filed with the SEC on August 9, 2006).
10(d)(viii)*	Amendment No. 1 to Cabot Corporation Non-Employee Directors' Stock Deferral Plan dated November 9, 2007 (incorporated herein by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2007, file reference 1-5667, filed with the SEC on February 11, 2008).
10(d)(ix)*	Amendment No. 2 to Cabot Corporation Amended and Restated Deferred Compensation Plan dated December 31, 2008 (incorporated herein by reference to Exhibit 10.5 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2008, file reference 1-5667, filed with the SEC on February 9, 2009).
10(e)*	Summary of Compensation for Non-Employee Directors (incorporated herein by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2012, file reference 1-5667, filed with the SEC on February 8, 2013).
10(f)	Asset Transfer Agreement, dated as of June 13, 1995, among Cabot Safety Corporation, Cabot Canada Ltd., Cabot Safety Limited, Cabot Corporation, Cabot Safety Holdings Corporation and Cabot Safety Acquisition Corporation (incorporated herein by reference to Exhibit 2(a) of Cabot Corporation's Current Report on Form 8-K dated July 11, 1995, file reference 1-5667, filed with the SEC on July 26, 1995).
10(g)*	Cabot Corporation Amended and Restated Senior Management Severance Protection Plan, dated March 9, 2012 (incorporated herein by reference to Exhibit 10.5 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2012, file reference 1-5667, filed with the SEC on May 7, 2012).
10(h)	Amended and Restated Sale and Purchase Agreement dated August 24, 2011 by and among Cabot Corporation, GAM International Pty Ltd, Global Advanced Metals USA, Inc., and Global Advanced Metals Pty Ltd, (incorporated herein by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2012, file reference 1-5667, filed with the SEC on May 7, 2012).
10(i)(i)*†	Form of Restricted Stock Unit Award Certificate under the Cabot Corporation 2009 Long-Term Incentive Plan.

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Exhibit Number	Description
10(i)(ii)*†	Form of Non-Qualified Stock Option Award Agreement under the Cabot Corporation 2009 Long-Term Incentive Plan.
21†	Subsidiaries of Cabot Corporation.
23†	Consent of Deloitte & Touche LLP.
31(i)†	Certification of Principal Executive Officer required by Rule 13a-14(a) or Rule 15d-14(a) of the Exchange Act.
31(ii)†	Certification of Principal Financial Officer required by Rule 13a-14(a) or Rule 15d-14(a) of the Exchange Act.
32††	Certifications of the Principal Executive Officer and Principal Financial Officer pursuant to 18 U.S.C. Section 1350.
101.INS†	XBRL Instance Document.
101.SCH†	XBRL Taxonomy Extension Schema Document.
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101.DEF†	XBRL Taxonomy Extension Definition Linkbase Document.
101.LAB†	XBRL Taxonomy Label Linkbase Document.
101.PRE†	XBRL Taxonomy Presentation Linkbase Document.

\* Management contract or compensatory plan or arrangement.

† Filed herewith.

†† Furnished herewith.

Attached as Exhibit 101 to the report are the following documents formatted in XBRL (Extensible Business Reporting Language): (i) the Consolidated Statements of Operations for the years ended September 30, 2013, 2012, 2011; (ii) Consolidated Statements of Comprehensive Income for years ended September 30, 2013, 2012, or 2011. (iii) the Consolidated Balance Sheets at September 30, 2013 and September 30, 2012; (iv) the Consolidated Statement of Cash flows for the years ended September 30, 2013, 2012 and 2011; (v) the Consolidated Statement of Changes in Stockholders' Equity September 30, 2013, 2012 and 2011; and (vi) Notes to the Consolidated Financial Statements, September 30, 2013.

(c) *Schedules*. The Schedules have been omitted because they are not required or are not applicable, or the required information is shown in the financial statements or notes thereto.

**Cabot Corporation**  
**2009 Long-Term Incentive Plan**  
**Restricted Stock Unit Award Certificate**

, 2013

**Cabot Corporation Headquarters**

This Certificate evidences the grant to you by Cabot Corporation (the "Company"), subject to the terms provided herein and in the 2009 Long-Term Incentive Plan (as amended from time to time, the "2009 Plan"), of the restricted stock units set forth in the table below (such units referred to collectively as your "Award"). The principal terms of your Award are described below. Except as otherwise expressly provided, all capitalized terms used that are not defined herein shall have the same meaning as in the 2009 Plan.

<b>Time-Based Restricted Stock Unit</b>	<b>RSUs</b>
<b>Performance-Based Restricted Stock Unit</b>	<b>PSUs</b>
<b>Date that Units Vest</b>	<b>[Date]</b>

**General Terms of your Award.**

**Time-Based Restricted Stock Unit.** The time-based restricted stock unit portion of your Award (the "RSUs") gives you the conditional right to receive, without payment, subject to the vesting and other conditions set forth in this Certificate and in the 2009 Plan, (i) shares of common stock, par value \$1.00 per share, of the Company (the "Common Stock") equal in number to the number of RSUs set forth in the table above (the "Shares"), and (ii) dividend equivalents, payable in cash, when and if dividends are declared and paid on the Company's outstanding shares of Common Stock, and equal in value to the dividends that would have been paid in respect of the Shares had such Shares been issued to you on [date]. Dividend equivalents will only be paid to you with respect to Shares underlying RSUs that have not vested as of the applicable Common Stock dividend record date. Any dividend equivalents payable to you will be paid through the payroll system as soon as administratively possible after the applicable Common Stock dividend payment date, subject to your continued employment through the date that such dividend equivalents are paid.

**Performance-Based Restricted Stock Unit.** The performance-based restricted stock unit portion of your Award (the "PSUs") gives you the conditional right to receive, without payment, upon the Compensation Committee of the Company's Board of Directors determining the Company's achievement of the performance metrics outlined in Appendix A attached to this Certificate and subject to the vesting and other conditions set forth in this Certificate and in the 2009 Plan, shares of Common Stock representing from 0% to 150% of the number of PSUs granted, with the actual number of shares to be delivered determined in accordance with the provisions of Appendix A and rounded to the nearest whole number, it being understood that the Compensation Committee has discretion to adjust the performance metrics outlined in Appendix A to account for, or to take into account in determining whether any performance metric set forth in Appendix A has been achieved, the occurrence of unanticipated events and circumstances during the performance period of this Award as the Compensation Committee deems necessary or advisable. You shall not be entitled to dividend equivalents with respect to the PSU portion of your Award.

**Vesting of Your Award.** Except as otherwise provided in the Plan, and subject in the case of PSUs to the achievement of the performance metrics outlined in Appendix A, your Award shall vest on [date], unless it is earlier terminated or forfeited, provided you are on such date, and will have been at all times since the date of this Certificate, an employee of the Company or a subsidiary or affiliate of the Company. The conditions under which your Award may be forfeited are explained below.

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**Circumstances that may lead to the forfeiture of your Award.** If your employment with Cabot ends for any reason before your Award vests, other than because of your death or Disability or because within two years following a Change in Control Cabot or any successor employer terminates your employment other than for Cause or you terminate your employment for Good Reason as more fully described below, you will forfeit your Award immediately. If your employment ceases because of your death or Disability, the following rules will apply:

- the RSU portion of your Award will vest;
- any portion of your PSU Award as to which at the time your employment ceases the performance criteria have been satisfied (other than the passage of time necessary for vesting) will vest; and
- any portion of your PSU Award which is conditioned upon satisfaction of performance criteria with respect to a current or future performance period that have not been satisfied at the time your employment ceases will terminate.

If your Award remains outstanding following a Change in Control (either because of assumption, substitution or otherwise as provided for in Section 7(a)(y)(i) of the 2009 Plan), and within two years following such Change in Control Cabot or any successor employer terminates your employment other than for Cause, or you terminate your employment for Good Reason, the following rules will apply:

- the RSU portion of your Award will vest;
- any portion of your PSU Award as to which at the time your employment ceases the performance criteria have been satisfied (other than the passage of time necessary for vesting) will vest; and
- any portion of your PSU Award which is conditioned upon satisfaction of performance criteria with respect to a current or future performance period that have not been satisfied at the time your employment ceases will vest as if target performance had been achieved.

For purposes of this award agreement, "Cause" means (i) your willful and continued failure to perform substantially your reasonably assigned duties with the Company or any successor entity or any of their respective Affiliates (other than any such failure resulting from your physical or mental incapacity or any such actual, alleged or anticipated failure after you issue a notice of termination for Good Reason) after a written demand for substantial performance is delivered to you by the Company which demand specifically identifies the manner in which the Company believes you have not substantially performed your duties; or (ii) your willfully engaging in conduct which is demonstrably and materially injurious to the Company, monetarily or otherwise. For purposes of this definition (i) no act, or failure to act, on your part shall be deemed "willful" unless done, or omitted to be done, by you not in good faith and without reasonable belief that your actions or omission was in the best interest of the Company and (ii) your good faith errors in judgment shall not constitute Cause or be considered in any determination of whether Cause exists.

For purposes of this award agreement, "Good Reason" means the occurrence after a Change in Control, without your prior written consent, of any of the following events or conditions:

(a) a change in your status, title, position or responsibilities (including reporting responsibilities) which represents a material adverse change from your status, title, position or responsibilities as in effect immediately prior thereto; the assignment to you of any duties or responsibilities which are materially inconsistent with your status, title, position or responsibilities; or your removal from or the failure to reappoint or reelect you to any of such offices or positions, except in connection with the termination of your employment for Disability, Cause, as a result of your death or by you other than for Good Reason;

(b) a reduction in the rate of your annual base salary or target annual cash bonus, or a material reduction in your total compensation;

(c) the relocation of the offices at which you are principally employed to a location more than twenty-five (25) miles from the location of such office immediately prior to the Change in Control, or the Company's requiring you to be based at a location more than twenty-five (25) miles from such office, except to the extent you were not previously assigned to a principal location and except for required travel on the Company's business to an extent substantially consistent with your business travel obligations at the time of the Change in Control;

(d) the failure by the Company to pay to you any portion of your then current base salary or annual cash bonus or any other compensation, or to pay to you any portion of an installment of deferred compensation under any deferred compensation program of the Company in which you participated, in each case, within fourteen (14) days of the date such compensation is due and payable in accordance with the terms of the applicable agreement or plan or applicable law; or

(e) any material reduction in the retirement or welfare benefits or other material benefit or compensation plan made available to you or any materially adverse change in the terms on which those benefits are made available.

In order for a termination for Good Reason to be effective, you must (a) provide notice to the Company specifying in reasonable detail the condition giving rise to the Good Reason no later than the one-hundred and eightieth (180th) day following the occurrence of that condition; (b) provide the Company a period of thirty (30) days to remedy the condition; and (c) terminate your employment for Good Reason within sixty (60) days following the expiration of the Company's period to remedy if the Company fails to remedy the condition.

**Delivery of Shares.** The Company shall, as soon as practicable upon the vesting of your Award (but in no event later than March 15 of the year following the year such Award vests) deliver the shares with respect to such vested Award to you (or, in the event of your death, to the person to whom the Award has passed by will or the laws of descent and distribution). No shares will be issued pursuant to this Award unless and until all legal requirements applicable to the issuance or transfer of such shares have been complied with to the satisfaction of the Administrator and you have made arrangements to pay to Cabot any applicable withholding taxes due upon the vesting of your Award.

**Rights as a Shareholder; Dividends.** The Award shall not be interpreted to bestow upon you any equity interest or ownership in the Company or any Affiliate prior to the date on which the Company delivers shares to you. You are not entitled to vote any shares by reason of the granting of this Award. You shall have the rights of a shareholder only as to those shares, if any, that are actually delivered under this Award at the time such shares are delivered. You will be entitled to receive dividend equivalents as provided for in this Certificate.

**Certain Tax Matters.** The general tax consequences of the Award are described in the Supplementary Tax Summary attached to this Certificate. You are responsible, however, for seeking advice from your own tax and financial advisors with respect to the consequences of the Award to the extent you require or desire such advice.

You must pay to Cabot any applicable withholding taxes due upon the vesting and/or settlement of your Award. **Unless you instruct the Corporate Compensation Department otherwise**, to satisfy federal, state and local withholding requirements arising in connection with the vesting and/or settlement of this Award, Cabot will automatically withhold shares of stock from the shares otherwise deliverable to you, up to the greatest number of whole shares with an aggregate fair market value not exceeding the minimum required withholding applicable to the amount so vesting. If you wish to increase your tax withholding with respect to taxes due upon the vesting and/or settlement of this Award or satisfy your withholding requirements with a cash payment to Cabot, you must notify the Corporate Compensation Department at least 10 calendar days before the date the Award is scheduled to vest. The Corporate Compensation Department will provide you with an election form at your request and any notification will need to be made using such form.

**Nontransferability.** Neither this Award nor any rights with respect thereto may be sold, assigned, transferred (other than by will or the laws of descent and distribution), pledged or otherwise encumbered, except as the Administrator may otherwise determine.

**Effect on Employment Rights.** This Award shall not confer upon you any right to continue as an employee of the Company or any of its subsidiaries or affiliates and shall not affect in any way the right of the Company or any subsidiary or affiliate of the Company to terminate your employment at any time. Further, any benefits you receive from the grant or vesting of your Award shall not be considered a component of your salary for any purpose, including, without limitation, any salary-related calculations for holiday, sick pay, termination payments, overtime or similar payments.

**Provisions of the 2009 Plan.** The terms specified in this Certificate are governed by the terms of the 2009 Plan, a copy of which has been provided to you. Information about the 2009 Plan is also included in the Prospectus for the 2009 Plan, a copy of which has also been provided to you. The Compensation Committee of Cabot's Board of Directors has the exclusive authority to interpret the 2009 Plan and this Award, including whether and to what extent the performance metrics outlined in Appendix A have been achieved. Any interpretation of the Award by the Committee and any decision made by it with respect to the Award are final and binding on all persons. To the extent there is a conflict between the terms of this Certificate, the 2009 Plan or any employment agreement between you and Cabot or any of its subsidiaries, the 2009 Plan shall govern.

**Recoupment Policy.** This Award is subject to the terms of the Company's Recoupment Policy as in effect at the time of this Award.

**Amendments.** No amendment of any provision of this Certificate (other than an adjustment in the performance metrics set forth in Appendix A made in accordance with the terms herein, which shall not be deemed an amendment of this Certificate) shall be valid unless the same shall be in writing.

**Governing Law.** This Certificate shall be governed and construed by and determined in accordance with the laws of The Commonwealth of Massachusetts, without giving effect to any choice of law or conflict of law provision or rule (whether of The Commonwealth of Massachusetts or any other jurisdiction) that would cause the application of the laws of any jurisdiction other than The Commonwealth of Massachusetts.

By signing below, you hereby accept your Award subject to the terms set forth herein and in the 2009 Plan, and acknowledge that the Company will use and may transfer your personal data to service providers of the Company or other third parties for the specific purposes of the 2009 Plan, all in accordance with the Company's privacy policies. In addition, you understand that this Award is discretionary, and that eligibility for an award under the 2009 Plan is established at the time awards are made. Therefore, your receiving this Award does not mean that you are guaranteed an award in the future.

Agreed and Accepted:

By \_\_\_\_\_  
Print Name:

**Kindly sign, date and return this certificate to Cabot Corporation, Attention: \_\_\_\_\_, Compensation Department by hand delivery or mail, to 157 Concord Road, Billerica, MA 01821; or by fax to the HR Confidential Fax: \_\_\_\_\_.**

**CABOT CORPORATION**  
**2009 LONG-TERM INCENTIVE PLAN**  
**Stock Option Award Certificate**

[Date]

Name

Location Name

This Certificate evidences the grant to you by Cabot Corporation (the "Company" or "Cabot"), subject to the terms provided herein and in the 2009 Long-Term Incentive Plan (as amended from time to time, the "2009 Plan"), of stock options to purchase the number of shares of common stock of Cabot set forth in the table below (such stock options referred to as your "Award"). The principal terms of your Award are described below. Except as otherwise expressly provided, all capitalized terms used that are not defined herein shall have the same meaning as in the 2009 Plan.

Non-Qualified Stock Option

[Option Award]

Grant Date

[Date]

Exercise Price (Per Share)

[Exercise price]

Dates that Stock Option Vests and Becomes Exercisable

[Vesting dates]

Expiration Date

[Expiration date]

**General Terms of your Stock Option.** Your stock option gives you the right to purchase shares of common stock of Cabot at the per share exercise price, and subject to the vesting provisions, set forth above. This stock option is not intended to constitute an incentive stock option under Section 422 of the Internal Revenue Code, as amended.

**Vesting and Duration of your Stock Option.** As indicated in the table above, a portion of your Award will vest, and become exercisable, on the first, second and third anniversaries of the date of grant. After your stock option vests, unless it is earlier terminated or forfeited, it is generally exercisable, in whole or in part, at any time prior to its expiration date. Your stock option has a ten-year term. The conditions under which your award may be forfeited are explained below. The exercise of your stock option may involve the sale of Cabot stock, and accordingly, **there may be limitations on when you can exercise your stock option under Cabot's Policy on Transactions in Securities, a copy of which is being provided to you with the Prospectus for the 2009 Plan.**

**Circumstances that will lead to the termination of your stock option before the scheduled expiration date.** If your employment with Cabot ends and you continue to hold unexercised stock options, the following rules will apply:

- Any unvested options outstanding immediately prior to the cessation of your employment will be forfeited (unless your employment terminates because of your death or Disability, or because within two years following a Change in Control Cabot or any successor employer terminates your employment other than for Cause or you terminate your employment for Good Reason as more fully described below).
- Any vested stock options outstanding immediately prior to the cessation of your employment, to the extent exercisable, will remain exercisable for three months after the date on which your employment ended or until the stated expiration date, if earlier.
- If your employment ceases because of your death or Disability, any outstanding unvested stock options will become exercisable in full upon such termination and all outstanding stock options



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will remain exercisable for three years following the date on which your employment ended or until the stated expiration date, if earlier.

- If your Award remains outstanding following a Change in Control (either because of assumption, substitution or otherwise as provided for in Section 7(a)(y)(i) of the 2009 Plan), and within two years following such Change in Control Cabot or any successor employer terminates your employment other than for Cause, or you terminate your employment for Good Reason, any outstanding unvested stock options will become exercisable in full upon such termination and remain exercisable for three months following the date on which your employment ended or until the stated expiration date, if earlier.

**Exercising your Stock Option.** You may exercise your Award by delivering to the Company's designated broker for stock option exercises (or to the Company in the event the Company does not have a designated broker for stock option exercises) a signed notice of exercise, in the form provided, with payment of the exercise price and any withholding taxes due upon exercise. The date the Company's designated broker (or the Company in the event the Company does not have a designated broker for stock option exercises) receives your signed notice of exercise will be the exercise date. You may also choose to exercise your stock options in a cashless exercise through the Company's designated broker (or your own broker if the Company does not have a designated broker for stock option exercises). A cashless exercise involves a sale of Cabot stock in the market, with the proceeds applied to the stock option exercise price and any withholding taxes due. In a cashless exercise transaction, the exercise will be deemed to have occurred when the shares are sold by the broker.

**Payment of the Exercise Price.** You may pay for the shares you are purchasing upon the exercise of your stock option in the following ways:

- your personal check, bank check or draft, a money order payable to the order of Cabot or by wire transfer of funds;
- a check, payable to the order of the Company from the Company's designated broker, or in the event the Company does not have a designated broker for stock option exercises, your own broker;
- by delivery to the Company of shares of Cabot common stock held by you for at least six months having a market value (at the close of business on the last business day preceding the date on which your completed and signed notice of exercise is sent or hand delivered to Cabot) equal in amount to the exercise price of the option being exercised, provided that (a) this method of payment is then permitted by applicable law and (b) the shares used to pay the exercise price are not subject to any repurchase, forfeiture, unfulfilled vesting or other similar requirement (a stock swap); or
- by any combination of the above permitted forms of payment.

For purposes of this award agreement, "Cause" means (i) your willful and continued failure to perform substantially your reasonably assigned duties with the Company or any successor entity or any of their respective Affiliates (other than any such failure resulting from your physical or mental incapacity or any such actual, alleged or anticipated failure after you issue a notice of termination for Good Reason) after a written demand for substantial performance is delivered to you by the Company which demand specifically identifies the manner in which the Company believes you have not substantially performed your duties; or (ii) your willfully engaging in conduct which is demonstrably and materially injurious to the Company, monetarily or otherwise. For purposes of this definition (i) no act, or failure to act, on your part shall be deemed "willful" unless done, or omitted to be done, by you not in good faith and without reasonable belief that your actions or omission was in the best interest of the Company and (ii) your good faith errors in judgment shall not constitute Cause or be considered in any determination of whether Cause exists.

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For purposes of this award agreement, "Good Reason" means the occurrence after a Change in Control, without your prior written consent, of any of the following events or conditions:

(a) a change in your status, title, position or responsibilities (including reporting responsibilities) which represents a material adverse change from your status, title, position or responsibilities as in effect immediately prior thereto; the assignment to you of any duties or responsibilities which are materially inconsistent with your status, title, position or responsibilities; or your removal from or the failure to reappoint or reelect you to any of such offices or positions, except in connection with the termination of your employment for Disability, Cause, as a result of your death or by you other than for Good Reason;

(b) a reduction in the rate of your annual base salary or target annual cash bonus, or a material reduction in your total compensation;

(c) the relocation of the offices at which you are principally employed to a location more than twenty-five (25) miles from the location of such office immediately prior to the Change in Control, or the Company's requiring you to be based at a location more than twenty-five (25) miles from such office, except to the extent you were not previously assigned to a principal location and except for required travel on the Company's business to an extent substantially consistent with your business travel obligations at the time of the Change in Control;

(d) the failure by the Company to pay to you any portion of your then current base salary or annual cash bonus or any other compensation, or to pay to you any portion of an installment of deferred compensation under any deferred compensation program of the Company in which you participated, in each case, within fourteen (14) days of the date such compensation is due and payable in accordance with the terms of the applicable agreement or plan or applicable law; or

(e) any material reduction in the retirement or welfare benefits or other material benefit or compensation plan made available to you or any materially adverse change in the terms on which those benefits are made available.

In order for a termination for Good Reason to be effective, you must (a) provide notice to the Company specifying in reasonable detail the condition giving rise to the Good Reason no later than the one-hundred and eightieth (180th) day following the occurrence of that condition; (b) provide the Company a period of thirty (30) days to remedy the condition; and (c) terminate your employment for Good Reason within sixty (60) days following the expiration of the Company's period to remedy if the Company fails to remedy the condition.

***A cashless exercise involves the sale of Cabot stock in the market, and, therefore, must be completed in accordance with Cabot's Policy on Transactions in Securities. Please review the restrictions on trading contained in the Policy before making arrangements for a cashless exercise.*** Please note that the trading restrictions in Cabot's Policy on Transactions in Securities do not apply to transactions with the Company, such as the exercise of a stock option with your own funds or the surrender of shares in payment of the exercise price or in satisfaction of any tax withholding obligations, provided you do not sell the shares acquired while in possession of material nonpublic information or, if applicable to you, during a corporate blackout period.

**Tax consequences of your Stock Option.** The tax consequences of your Award are described in the Tax Information attached to this Certificate. If you are an employee in the U.S., withholding taxes will be deducted from the proceeds of your option exercise transaction unless other payment arrangements have been made. If you are a non-U.S. employee, the details of your options exercise transaction will be reported to your local Human Resources/Payroll office and funds may either be withheld from payroll or paid by you to satisfy any withholding obligation you may have.

**Effect on Employment Rights; Rights as a Stockholder.** This Award does not confer upon you any right to continue as an employee of the Company or any of its subsidiaries or affiliates and shall not affect

in any way the right of the Company or any subsidiary or affiliate of the Company to terminate your employment at any time. Further, you have no rights as a stockholder with respect to the shares subject to this option until the proper exercise of the option and the issuance of the shares with respect to which the option has been exercised.

**Provisions of the 2009 Plan.** The terms specified in this Certificate are governed by the terms of the 2009 Plan, a copy of which has been provided to you. Information about the 2009 Plan is also included in the Prospectus for the 2009 Plan, a copy of which has also been provided to you. The Compensation Committee of Cabot's Board of Directors has the exclusive authority to interpret the 2009 Plan and this Award. Any interpretation of the Award by the Committee and any decision made by it with respect to the Award are final and binding on all persons. To the extent there is a conflict between the terms of this Certificate and the 2009 Plan or any employment agreement between you and Cabot or any of its subsidiaries, the 2009 Plan shall govern.

**Recoupment Policy.** This Award and the shares issued to you upon any exercise of the Award are subject to the terms of the Company's Recoupment Policy as in effect at the time of this Award.

**Additional Information.** If you have any questions regarding your stock option or the exercise process, please contact HR Shared Services, 157 Concord Road, Billerica, MA 01821; Telephone (978-671-4139); HR Confidential Fax: \_\_\_\_\_.

**Governing Law.** This Certificate shall be governed and construed by and determined in accordance with the laws of The Commonwealth of Massachusetts, without giving effect to any choice of law or conflict of law provision or rule (whether of The Commonwealth of Massachusetts or any other jurisdiction) that would cause the application of the laws of any jurisdiction other than The Commonwealth of Massachusetts.

By signing below, you hereby accept your Award subject to the terms set forth herein and the related Tax Information, the 2009 Plan, the Prospectus for the 2009 Plan, and the other materials and documents provided to you in connection with the Award, and acknowledge that the Company will use and may transfer your personal data to service providers of the Company or other third parties for the specific purposes of the 2009 Plan, all in accordance with the Company's privacy policies. In addition, you understand that this Award is discretionary, and that eligibility for an award under the 2009 Plan is established at the time awards are made. Therefore, your receiving this Award does not mean that you are guaranteed an award in the future.

Kindly sign, date and return this Certificate to Cabot Corporation, Attention: \_\_\_\_\_, Compensation Department by hand delivery or mail, to 157 Concord Road, Billerica, MA 01821; or by fax to the HR Confidential Fax: \_\_\_\_\_.

IN WITNESS WHEREOF, the Company has caused this stock option to be executed by its duly authorized officer.

CABOT CORPORATION

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

\_\_\_\_\_  
Name: \_\_\_\_\_  
Date: \_\_\_\_\_

## Subsidiaries of Cabot Corporation

Subsidiary	State/Jurisdiction of Incorporation
Cabot Argentina S.A.I.C.	Argentina
Cabot Specialty Fluids S.A.	Argentina
Cabot Australasia Pty. Ltd.	Australia
Cabot Australasia Investments Pty. Ltd.	Australia
Cabot Plastics Belgium S.A.	Belgium
Specialty Chemicals Coordination Center, S.A.	Belgium
Cabot Performance Materials Belgium	Belgium
N.V. Norit Belgium	Belgium
Cabot (Bermuda) Ltd.	Bermuda
Cabot Brasil Industria e Comércio Ltda.	Brazil
Tantalum Mining Corporation of Canada Ltd.	Manitoba, Canada
Coltan Mines Limited	Manitoba, Canada
Cabot Finance N.B. LP	New Brunswick, Canada
Cabot Canada Ltd.	Ontario, Canada
Cabot Norit Canada Inc.	Canada
Cabot Plastics Hong Kong Limited	China
Shanghai Cabot Chemical Company Ltd.	China
Cabot Trading (Shanghai) Company Ltd.	China
Cabot (China) Limited	China
Cabot Bluestar Chemical (Jiangxi) Co., Ltd.	China
Cabot Chemical (Tianjin) Co., Ltd.	China
Cabot Performance Products (Tianjin) Co., Ltd.	China
Cabot Risun Chemical (Xingtai) Co., Ltd.	China
Norit China Limited	China
Cabot Colombiana S.A.	Colombia
CS Cabot spol, s.r.o.	Czech Republic
Cabot Czech Holding Company s.r.o.	Czech Republic
Cabot France S.A.S.	France
Cabot Carbone S.A.S.	France
Cabot Europa G.I.E.	France
Norit (France) S.a.r.l.	France
Cabot GmbH	Germany
Cabot Holdings I GmbH	Germany
Cabot Holdings II GmbH	Germany

Subsidiary	State/Jurisdiction of Incorporation
Cabot Aerogel GmbH	Germany
Norit Deutschland GmbH	Germany
Cabot India Limited	India
P.T. Cabot Indonesia	Indonesia
Cabot Italiana S.p.A.	Italy
Cabot Performance Materials Italy S.r.l	Italy
Cabot Norit Italia S.p.A.	Italy
Aizu Holdings K.K.	Japan
Cabot Asia Kumiai	Japan
Cabot Japan K.K.	Japan
Cabot Supermetals K.K.	Japan
Cabot Norit Japan Ltd.	Japan
Cabot Korea Y.H.	Korea
Cabot Luxembourg Holdings S.a.r.l.	Luxembourg
Cabot Luxembourg Investments S.a.r.l.	Luxembourg
Cabot Luxembourg Finance S.a.r.l.	Luxembourg
Cabot NHUMO Holdings II S.a.r.l.	Luxembourg
Cabot NHUMO Holdings I S.a.r.l.	Luxembourg
Cabot Asia Sdn. Bhd.	Malaysia
Cabot Elastomer Composites Sdn Bhd.	Malaysia
Cabot Materials Research Sdn Bhd.	Malaysia
Cabot Malaysia Sdn. Bhd.	Malaysia
CMHC, Inc.	Mauritius
Cabot Specialty Fluids (Singapore) Pte. Ltd.	Singapore
Cabot Norit Singapore Pte. Ltd.	Singapore
Cabot Specialty Fluids Mexico S. de R. L. de C.V.	Mexico
Cabot NHUMO Holding S.A.P.I., de C.V.	Mexico
Nhumo, S.A.P.I. de C.V.	Mexico
Altamira Carbon, S.A. de C.V.	Mexico
Mexico Reinforcement Materials, S.A.P.I. de C.V.	Mexico
Cabot S.A.	Spain
Cabot International GmbH	Switzerland
Cabot Switzerland GmbH	Switzerland
Cabot B.V.	The Netherlands
Cabot Finance B.V.	The Netherlands

<b>Subsidiary</b>	<b>State/Jurisdiction of Incorporation</b>
Cabot Activated Carbon B.V.	The Netherlands
Norit Holding B.V.	The Netherlands
Norit International N.V.	The Netherlands
Norit Real Estate B.V.	The Netherlands
Norit EAPA Holding B.V.	The Netherlands
Cabot Norit (Nederland) B.V.	The Netherlands
Black Rose Investments Limited	British Virgin Islands
Dragón Verde Investments Limited	British Virgin Islands
AHB Investments Limited	British Virgin Islands
HDF Investments Limited	British Virgin Islands
Ramaai Holdings Limited	British Virgin Islands
Cabot Performance Products FZE	Dubai, United Arab Emirates
Botsel Limited	United Kingdom (England)
Cabot Carbon Limited	United Kingdom (England)
Cabot G.B. Limited	United Kingdom (England)
Cabot Plastics Limited	United Kingdom (England)
Cabot U.K. Limited	United Kingdom (England)
Cabot UK Holdings Limited	United Kingdom (England)
Cabot UK Holdings II Limited	United Kingdom (England)
Cabot UK Holdings III Limited	United Kingdom (England)
Cabot Performance Materials UK Limited	United Kingdom (England)
Cabot Specialty Fluids Limited	United Kingdom (Scotland)
Cabot Specialty Fluids North Sea Limited	United Kingdom (Scotland)
Norit (UK) Holding Limited	United Kingdom (England)
Cabot Norit (UK) Limited	United Kingdom (England)
Purton Carbons Ltd.	United Kingdom (England)
Anglo Dutch Water Carbons Ltd.	United Kingdom (England)
Cabot Activated Carbon Holdings UK Limited	United Kingdom (England)
Cabot Activated Carbon UK Limited	United Kingdom (England)
BCB Company	Delaware, United States
Cabot Asia Investment Corporation	Delaware, United States
Cabot Ceramics, Inc.	Delaware, United States
Cabot Corporation Foundation, Inc.	Massachusetts, United States
Cabot CSC Corporation	Delaware, United States
Cabot Europe Limited	Delaware, United States

<b>Subsidiary</b>	<b>State/Jurisdiction of Incorporation</b>
Cabot Holdings LLC	Delaware, United States
Cabot Insurance Co. Ltd. (Vermont)	Vermont, United States
Cabot International Limited	Delaware, United States
Cabot International Capital Corporation	Delaware, United States
Cabot International Services Corporation	Massachusetts, United States
Cabot Specialty Chemicals, Inc.	Delaware, United States
Cabot Specialty Fluids, Inc.	Delaware, United States
CDE Company	Delaware, United States
Energy Transport Limited	Delaware, United States
Cabot US Finance LLC	Delaware, United States
Cabot US Investments LLC	Delaware, United States
Kawecki Chemicals, Inc.	Delaware, United States
Cabot Security Materials Inc.	Delaware, United States
Norit Americas Holding Inc.	Delaware, United States
Cabot Norit Americas Inc.	Georgia, United States
Marshall Mine LLC	Delaware, United States
Cabot Activated Carbon LLC	Delaware, United States
Representaciones 1, 2 y 3 C.A.	Venezuela
Valores Ramaai C.A.	Venezuela

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in Registration Statement No. 333-177176, 333-03683, 333-19103, 333-19099, 333-82353, 333-96879, 333-96881, 333-136484, 333-134134, 333-134133, 333-06629, 333-158991, 333-161253 and 333-181391 on Forms S-8 and Registration Statement No. 333-162021 on Form S-3 of our reports dated November 27, 2013, relating to the financial statements of Cabot Corporation, and the effectiveness of Cabot Corporation's internal control over financial reporting, appearing in this Annual Report on Form 10-K of Cabot Corporation for the year ended September 30, 2013.

/s/ Deloitte & Touche LLP

Boston, Massachusetts  
November 27, 2013



**Principal Executive Officer Certification**

I, Patrick M. Prevost, certify that:

1. I have reviewed this annual report on Form 10-K of Cabot Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 27, 2013

/s/ PATRICK M. PREVOST

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**Patrick M. Prevost**  
President and  
Chief Executive Officer

**Principal Financial Officer Certification**

I, Eduardo E. Cordeiro, certify that:

1. I have reviewed this annual report on Form 10-K of Cabot Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 27, 2013

/s/ EDUARDO E. CORDEIRO

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Eduardo E. Cordeiro  
Executive Vice President and  
Chief Financial Officer

**Certifications Pursuant to 18 U.S.C. Section 1350,  
as Adopted Pursuant to Section 906 of the  
Sarbanes-Oxley Act of 2002**

In connection with the filing of the Annual Report on Form 10-K for the year ended September 30, 2013 (the "Report") by Cabot Corporation (the "Company"), each of the undersigned hereby certifies pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to his knowledge:

1. The Report fully complies with the requirements of section 13 (a) or 15 (d) of the Securities Exchange Act of 1934, as amended; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

November 27, 2013

/s/ PATRICK M. PREVOST

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Patrick M. Prevost  
President and  
Chief Executive Officer

November 27, 2013

/s/ EDUARDO E. CORDEIRO

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Eduardo E. Cordeiro  
Executive Vice President and  
Chief Financial Officer

