

GRAFTECH INTERNATIONAL LTD

Form 10-K/A

May 13, 2011

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

**FORM 10-K/A**

**Amendment No. 1**

(Mark One)

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

for the fiscal year ended December 31, 2010

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: 1-13888

**GRAFTECH INTERNATIONAL LTD.**

(Exact name of registrant as specified in its charter)

Delaware  
(State or other jurisdiction of)

27-2496053  
(I.R.S. Employer)

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incorporation or organization) Identification Number)  
12900 Snow Road Parma, Ohio 44130  
(Address of principal executive offices) (Zip Code)  
**Registrant's telephone number, including area code:** (216) 676-2000

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

<b>Title of each class</b>	<b>Name of each exchange on which registered</b>
Common stock, par value \$.01 per share	New York Stock Exchange

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

None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes  No

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

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

Indicate by check mark whether the registrant 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 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, non-accelerated filer and smaller reporting company in Rule 12b-2 of the Exchange Act.

Large Accelerated Filer  Accelerated Filer  Non-Accelerated Filer  Smaller reporting company

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

The aggregate market value of our outstanding common stock held by non-affiliates, computed by reference to the closing price of our common stock on June 30, 2010, was approximately \$1,756 million. On January 31, 2011, 145,476,226 shares of our common stock were outstanding.

**DOCUMENTS INCORPORATED BY REFERENCE**

Certain information required under Part III is incorporated by reference from the GrafTech International Ltd. Proxy Statement for the Annual Meeting of Stockholders to be held on May 26, 2011, which was filed on April 14, 2011.

**Table of Contents****GrafTech International Ltd. Form 10-K/A****Explanatory Note**

GrafTech International Ltd. is filing this Form 10-K/A to reflect in its Annual Report on Form 10-K for the year ended December 31, 2010 the effect of the retrospective application of an election it has made in 2011 to change its method of recognizing actuarial gains and losses for its defined benefit pension plans and other postretirement benefit plans (herein referred to as OPEB ) and its method of calculating the expected return on plan assets. For an explanation of the changes in accounting method and a summary of the impacts of all adjustments made to the financial statements see Note 1 Business and Summary of Significant Accounting Policies Changes in Accounting Policy Regarding Pension and Other Postretirement Benefits of the Notes to the Consolidated Financial Statements included in Item 8 of this Report on Form 10-K/A.

We have amended the preliminary Notes and Items 1, 6, 7, and 8 of our Report on Form 10-K to reflect the effects of the retrospective application of our changes in accounting method. We have also updated Part III Executive Officers of our Report on Form 10-K for an event that occurred subsequent to the original filing of the Form 10-K.

This Form 10-K/A has not been updated for other events or information subsequent to the date of filing of the original Form 10-K, except as above. Accordingly, this Form 10-K/A should be read in conjunction with our other filings made with the SEC subsequent to the filing of our original Report on Form 10-K.

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### PART I

## Preliminary Notes

**Important Terms.** We use the following terms to identify various matters. These terms help to simplify the presentation of information in this Report.

**Common stock** means GTI common stock, par value \$.01 per share.

**Credit Agreement** refers to the credit agreement providing for our senior secured credit facilities, as amended, or amended and restated at the relevant time. **Revolving Facility** refers to the revolving credit facility provided under the Credit Agreement, at the relevant time. On April 28, 2010, the Credit Agreement was amended and restated to, among other things, extend the maturity of the Revolving Facility to April 29, 2013, and add provisions to permit establishment of additional credit facilities thereunder.

**Debentures** means our 1-5/8% convertible senior debentures issued under an Indenture dated January 22, 2004 (as supplemented). During the second quarter of 2008, all Debentures were either redeemed or converted into Common Stock.

**GrafTech Finance** refers to GrafTech Finance Inc. only. GrafTech Finance is an indirect wholly-owned, special purpose finance subsidiary of GTI and the borrower under the Revolving Facility. GrafTech Finance was the issuer of the Senior Notes and was a guarantor of the Debentures.

**GrafTech Global** refers to GrafTech Global Enterprises Inc. only. GrafTech Global is an indirect wholly-owned subsidiary of GTI and the direct or indirect holding company for all of our operating subsidiaries. GrafTech Global is a guarantor of the Revolving Facility.

**GTI** refers to GrafTech International Ltd. only. GTI is our public parent company and the issuer of our publicly traded common stock registered under the Exchange Act and listed on the NYSE. GTI is a guarantor of the Revolving Facility.

**Senior Notes** means our 10.25% senior notes due 2012 issued under an Indenture dated February 15, 2002 (as supplemented, the **Senior Note Indenture** ). On September 28, 2009, we redeemed all of the remaining outstanding Senior Notes.

**Senior Subordinated Notes** means our two senior subordinated promissory notes issued on November 30, 2010, in connection with the Seadrift Coke L.P. ( Seadrift ) and C/G Electrodes LLC ( C/G ) acquisitions, for an aggregate total face amount of \$200 million. These senior subordinated notes are non-interest bearing and will mature in 2015. Because the Senior Subordinated Notes are non-interest bearing, we were required to record them at their present value (determined using an interest rate of 7.00%).

**MTM Adjustment** refers to our accounting policy regarding pension and other postretirement benefits whereby we immediately recognize the change in the fair value of plan assets (referred to as mark-to-market ) and net actuarial gains and losses annually in the fourth quarter of each year.

**Subsidiaries** refers to those companies that, at the relevant time, are or were majority owned or wholly-owned directly or indirectly by GTI or its predecessors to the extent that those predecessors activities related to the graphite and carbon business.

**GTIH** refers to GrafTech International Holdings, Inc. only. GTIH is our wholly-owned subsidiary through which we conduct most of our U.S. operations. GTIH is a guarantor of the Revolving Facility.

**We, us or our** refers to GTI and its subsidiaries collectively or, if the context so requires, GTI, GrafTech Global, GrafTech Finance or GTIH, individually. In November 2010, we completed the reorganization of our holding company structure pursuant to which we formed a new parent holding company, GrafTech Holdings Inc., which had been renamed GrafTech International Ltd. ( new parent ). Our former parent holding company, which had been named GrafTech International Ltd. ( former parent ) as part of the reorganization, was renamed GrafTech Holdings Inc. and became a direct wholly owned subsidiary of a new parent. Our new parent

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adopted the same certificate of incorporation (except for certain technical matters) and by-laws of our former parent; each share of common stock of our former parent was converted into one share of common stock of our new parent; and our new parent common stock was listed on the NYSE under our former parent's ticker symbol GTI.

**Presentation of Financial, Market and Legal Data.** References to cost in the context of our low cost advantages and strategies do not include the impact of special charges, expenses or credits, such as those related to investigations, lawsuits, claims, restructurings or impairments, or the impact of changes in accounting principles.

Unless otherwise noted, when we refer to **dollars**, we mean U.S. dollars. Unless otherwise noted, all dollars are presented in thousands.

References to spot prices for graphite electrodes mean prices under individual purchase orders (not part of an annual or other extended purchase arrangement) for near term delivery for standard size graphite electrodes used in large electric arc steel melting furnaces (sometimes called **melters** or **melter** applications) as distinct from, for example, a ladle furnace or a furnace producing non-ferrous metals.

Neither any statement made in this Report nor any charge taken by us relating to any legal proceedings constitutes an admission as to any wrongdoing.

Unless otherwise noted, market and market share data in this Report are our own estimates. Market data relating to the steel, electronics, semiconductor, solar, thermal management, transportation, petrochemical and other metals industries, our general expectations concerning such industries and our market position and market share within such industries, both domestically and internationally, are derived from trade publications relating to those industries and other industry sources as well as assumptions made by us, based on such data and our knowledge of such industries. Market and market share data relating to the graphite and carbon industry as well as information relating to our competitors, our general expectations concerning such industry and our market position and market share within such industry, both domestically and internationally, are derived from the sources described above and public filings, press releases and other public documents of our competitors as well as assumptions made by us, based on such data and our knowledge of such industry. Our estimates involve risks and uncertainties and are subject to change based on various factors, including those discussed under Risk Factors-Risks Relating to Us and Risk Factors Forward Looking Statements in this Report. We cannot guarantee the accuracy or completeness of this market and market share data and have not independently verified it. None of the sources mentioned above has consented to the disclosure or use of data in this Report.

Unless otherwise noted, references to **market shares** are based on sales volumes for the relevant year and references to **natural graphite products** do not include mined natural graphite flake.

The GRAFTECH logo, GRAFCELL<sup>®</sup>, GRAFOAM<sup>®</sup>, and GRAFIHX are our trademarks and trade names used in this report. This Report also contains trademarks and trade names belonging to other parties.

We make available, free of charge, on or through our web site, copies of our proxy statements, our annual reports on Form 10-K, our quarterly reports on Form 10-Q, our current reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we electronically file them with, or furnish them to, the U.S. Securities and Exchange Commission (SEC). We maintain our website at <http://www.graftech.com>. The information contained on our web site is not part of this Report. The SEC maintains a website that contains reports, proxy and information statements, and other information regarding issuers that file electronically. Please see <http://www.sec.gov> for more information.

We have a code of ethics (which we call our Code of Conduct and Ethics) that applies to our principal executive officer, principal financial officer, principal accounting officers and controller, and persons performing similar functions, as well as our other employees, and which is intended to comply, at a minimum, with the listing standards of the New York Stock Exchange (NYSE) as well as the Sarbanes-Oxley

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Act of 2002 and the SEC rules adopted thereunder. A copy of our Code of Conduct and Ethics is available on our web site at <http://www.graftech.com/getdoc/fd25921b-07b1-429f-86fa-397f0d0cb30d/Code-of-Conduct-and-Ethics.aspx>. We intend to report timely on our website any disclosures concerning amendments or waivers of our Code of Conduct and Ethics that would otherwise require the filing of a Form 8-K with the SEC.

We also have corporate governance guidelines (which we call the Charter of the Board of Directors) which is available on our website at <http://www.graftech.com/getdoc/6b8a3b4d-967c-4bdd-ab04-ea0011de0c91/GRAFTECH-INTERNATIONAL-LTD-Corp-Gov-Guide.aspx> as required by the NYSE.

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**Item 1. Business**

**INTRODUCTION**

Our vision is to enable customer leadership, better and faster than our competition, through the creation, innovation and manufacture of graphite and carbon material science-based solutions. We have 125 years of experience in the research and development of graphite and carbon-based solutions and our intellectual property portfolio is extensive. Our business was founded in 1886 by the National Carbon Company.

We are one of the world's largest manufacturers of the broadest range of high quality graphite electrodes, products essential to the production of electric arc furnace ( **EAF** ) steel and various other ferrous and nonferrous metals. We also manufacture carbon, graphite and semi-graphite refractory products, which protect the walls of blast furnaces and submerged arc furnaces. We are one of the largest manufacturers of high quality natural graphite products enabling thermal management solutions for the electronics industry and fuel cell solutions for the transportation and power generation industries. We are one of the world's largest manufacturers and providers of advanced graphite and carbon materials for the transportation, solar, and oil and gas exploration industries. We service customers in about 65 countries, including industry leaders such as Arcelor Mittal, BaoSteel, Gerdau S.A. and ThyssenKrupp Steel in steel, Samsung in electronics, Elkem Solar in the solar industry and Griffin Wheel in the transportation industry.

On November 30, 2010, we announced the acquisition from the equity holders of Seadrift Coke L.P. ( **Seadrift** ) of 81.1% of the equity interests of Seadrift that we did not already own and from the equity holders of C/G Electrodes LLC ( **C/G** ) of 100% of the equity interests of C/G.

Seadrift is one of the largest producers of petroleum-based needle coke in the world and owns the world's only known stand-alone petroleum-based needle coke plant. Needle coke is the key raw material used to make graphite electrodes, including premium UHP graphite electrodes, which are critical consumables in EAF steel production. The acquisition of Seadrift helps to assure us of a stable supply for a majority of the primary raw material in the production of graphite electrodes and should allow us to reduce the relative cost of a significant portion of our supply of needle coke.

C/G is a U.S.-based producer of large diameter premium UHP graphite electrodes used in the EAF steel making process. C/G also sells various other graphite-related products, including specialty graphite blocks, granular graphite and partially processed electrodes. The acquisition of C/G provides us with a large diameter graphite electrode manufacturing facility in the U.S. which will allow us to respond to customer orders more quickly and reduce freight cost and transit time for North American shipments.

We currently manufacture our products in 14 manufacturing facilities strategically located on four continents. We believe our Industrial Materials network has the largest manufacturing capacity and the lowest manufacturing cost structures of all of our major competitors and delivers the highest-level quality products. We currently have the operating capability, depending on product mix, to manufacture approximately 255,000 metric tons of graphite electrodes sellable capacity. We believe that our global manufacturing network provides us with competitive advantages in product quality, proximity to customers, timely and reliable product delivery, and product costs. Given our global network, we are well positioned to serve the growing number of consolidated, global, multi-plant steel customers as well as certain smaller, regional customers and segments.

We operate one of the premier research, development and testing facilities in the graphite and carbon industry, and we believe we are an industry leader in graphite and carbon material science and high temperature processing know-how. We believe our technological capabilities for developing products with superior thermal, electrical and physical characteristics provide us with a competitive advantage. These capabilities have enabled us to accelerate development and commercialization of our technologies to exploit markets with high growth potential.

**Products.** We have five major product categories: graphite electrodes, refractory products, needle coke products, advanced graphite materials and natural graphite products.

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**Reportable Segments.** Our businesses are reported in the following reportable segments: Industrial Materials, which include graphite electrodes, refractory products and needle coke products; and Engineered Solutions, which include advanced graphite materials and natural graphite products. We discuss our reportable segments and geographic areas in more detail in Note 3, Segment Reporting of the Notes to the Consolidated Financial Statements.

**Industrial Materials.** Our Industrial Materials segment manufactures and delivers high quality graphite electrodes, refractory products and needle coke products.

We are one of the world's largest manufacturers of the broadest range of high quality graphite electrodes, refractory products, and needle coke products. Electrodes are key components of the conductive power systems used to produce steel and other non-ferrous metals. Approximately 70% of our graphite electrodes sold is consumed in the EAF steel melting process, the steel making technology used by all mini-mills, typically at a rate of one graphite electrode every eight to ten operating hours. We believe that mini-mills constitute the higher long-term growth sector of the steel industry and that there is currently no commercially viable substitute for graphite electrodes in EAF steel making. Therefore, graphite electrodes are essential to EAF steel production. The remaining approximately 30% of our graphite electrodes sold is primarily used in various other ferrous and non-ferrous melting applications, including steel refining (that is, ladle furnace operations for both EAF and basic oxygen furnace steel production), fused materials, chemical processing, and alloy metals. We are a producer of petroleum needle coke. Needle coke is a key raw material in the manufacture of the graphite electrodes used in the EAF steel production process.

GrafTech is also a leading global supplier of carbon, semigraphite and graphite refractory hearth linings for blast and submerged arc furnaces used to produce iron and ferroalloys. Refractory products are used to protect the walls of blast furnaces and submerged arc furnaces due to their high thermal conductivity and the ease with which they can be machined to large or complex shapes. Among the major refractory product suppliers, GrafTech has one of the most complete offerings, including a full range of brick, block, ramming paste, cement and grout products.

**Engineered Solutions.** Engineered Solutions include advanced graphite materials and natural graphite products. Advanced graphite materials are highly engineered synthetic graphite products used in many industrial areas due to their unique properties and the ability to tailor them to specific solutions. These products are used in the transportation, solar, metallurgical, chemical, oil and gas exploration, and various other industries as further described below. Our natural graphite products consist of thermal management solutions, fuel cell components, and sealing materials.

## **INDUSTRIAL MATERIALS SEGMENT**

Our Industrial Materials segment, which had net sales of \$1,008.8 million in 2008, \$538.1 million in 2009, and \$833.9 million in 2010, manufactures and delivers high quality graphite electrodes, refractory products and needle coke products, as well as provides customer technical services. Industrial Materials sales represented approximately 85%, 82% and 83% of consolidated net sales for 2008, 2009, and 2010, respectively. We estimate that the worldwide demand for our industrial materials products was approximately \$3.8 billion in 2009 (excluding needle coke products) and approximately \$6.6 billion in 2010 (including needle coke products). On a comparable basis, the total worldwide demand change for Industrial Materials is an increase of 32% primarily due to improving global economic conditions. Customers for these products are located in all major geographic regions.

**Graphite Electrode Products.** Graphite electrodes are consumed primarily in EAF steel production, the steel making technology used by all mini-mills. Graphite electrodes are also consumed in the refining of steel in ladle furnaces and in other smelting processes such as production of titanium dioxide.

Electrodes act as conductors of electricity in the furnace, generating sufficient heat to melt scrap metal, iron ore or other raw materials used to produce steel or other metals. The electrodes are consumed in the course of that production.

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Electric arc furnaces operate using either alternating electric current or direct electric current. The vast majority of electric arc furnaces use alternating current. Each of these alternating current furnaces typically uses nine electrodes (in three columns of three electrodes each) at one time. The other electric arc furnaces, which use direct current, typically use one column of three electrodes. The size of the electrodes varies depending on the size of the furnace, the size of the furnace's electric transformer and the planned productivity of the furnace. In a typical furnace using alternating current and operating at a typical number of production cycles per day, one of the nine electrodes is fully consumed (requiring the addition of a new electrode), on average, every eight to ten operating hours. The actual rate of consumption and addition of electrodes for a particular furnace depends primarily on the efficiency and productivity of the furnace. Therefore, demand for graphite electrodes is directly related to the amount and efficiency of electric arc furnace steel production.

Electric arc furnace steel production requires significant heat (as high as 5,000° F) to melt the raw materials in the furnace, primarily scrap metal. Heat is generated as electricity (as much as 150,000 amps) passes through the electrodes and creates an electric arc between the electrodes and the raw materials.

Graphite electrodes are currently the only known commercially available products that have the high levels of electrical conductivity and the capability of sustaining the high levels of heat generated in an electric arc furnace producing steel. Therefore, graphite electrodes are essential to the production of steel in electric arc furnaces. We believe there is currently no commercially viable substitute for graphite electrodes in electric arc furnace steel making. We estimate that, on average, the cost of graphite electrodes represents about 2 - 3% of the cost of producing steel in a typical electric arc furnace.

Electric arc furnace steel production was estimated to be approximately 390 million metric tons in 2010, representing approximately 28% of the world's steel production. As global economic conditions continue to improve, we expect EAF production to increase approximately 6% in 2011. We are aware of approximately 43 million metric tons of new EAF capacity start ups and projects that we expect will be added over the next two-three years. We believe the EAF utilization rate in 2010 was approximately 71%, compared to approximately 65% in 2009.

*Relationship Between Graphite Electrode Demand and EAF Steel Production.* The improved efficiency of electric arc furnaces has resulted in a decrease in the average rate of consumption of graphite electrodes per metric ton of steel produced in electric arc furnaces (called specific consumption). We estimate that the average EAF melter specific consumption has declined in the last five years by an average of approximately 1.8% per year from slightly above 1.8 kilograms of graphite electrodes per metric ton produced in 2006 and we estimate that the rate of improvement in specific consumption will decline to less than one percent per year over the long term.

Over the long term, specific consumption will continue to decrease at a more gradual pace, as the EAF steel makers investment cost (relative to the benefits) increases to achieve further efficiencies in specific consumption. Another contributing factor is the ongoing electrode quality improvements of graphite electrode manufacturers.

We further believe that the rate of decline in the future will be impacted by the addition of modern EAF steel making capacity which tends to have lower specific consumption than the average. To the extent that this new capacity replaces old capacity, it has the accelerated effect of reducing industry wide specific consumption due to the efficiency of new electric arc furnaces relative to the old. However, to the extent that this new capacity increases industry wide EAF steel production capacity and that capacity is utilized, it creates additional demand for graphite electrodes. As an example, the approximately 43 million metric tons of new EAF capacity start ups and projects that we expect will be added over the next 2-3 years will result in approximately 74,000 metric tons of new graphite electrode demand, depending on steel industry utilization rates.

Increases in EAF steel production, offset by declines in specific consumption, resulted in corresponding changes in demand for graphite electrodes. Graphite electrode demand is expected to increase in 2011 due to production increases in the EAF

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steel industry, which are forecasted to increase over 5%. We estimate that graphite electrode demand will also grow at over 5% (net of specific consumption).

Over the long term, graphite electrode demand is estimated to grow at an average annual net growth rate of approximately 2%, based on the anticipated growth of EAF steel production (average historical growth rate of 3%), partially offset by the decline in future specific consumption.

*Production Capacity.* We believe that the worldwide total graphite electrode manufacturing capacity was approximately 1.6 million metric tons for 2008 and 2009 and approximately 1.7 million metric tons for 2010. We believe that the graphite electrode industry manufacturing capacity utilization rate worldwide was less than 90% for 2008, approximately 60% for 2009, and approximately 80% for 2010.

As a result of the recent acquisition and other actions, as well as our proprietary process and technological improvements, we have the capability, depending on product demand and mix, to manufacture approximately 255,000 metric tons of graphite electrodes annually from our existing assets.

*Industrial Materials Demand.* We estimate that the worldwide demand for graphite electrodes, needle coke, refractories and other products was approximately \$6.6 billion in 2010 and we estimate that we supplied approximately 14% of the worldwide demand for these products.

*Refractory Products.* We manufacture carbon, semi-graphitic, and graphite refractory bricks which are used primarily for their high thermal conductivity. Common applications in blast furnace and submerged arc furnaces include cooling courses in the hearth bottoms for heat distribution and removal, backup linings in hearth walls for improved heat transfer and safety, and lintels over copper cooling plates where a single brick cannot span the cooling plate.

GrafTech has one of the most unique carbon making processes in the world, called the hot-press process. By using various carbon and other sources and utilizing electricity, a baked refractory brick can be created in minutes as opposed to a month for the traditional block process. After cooling, the bricks are sent to an automated grinder and machined to the required size and shape to fill a customer's order.

*Needle Coke Products.* We are currently producing petroleum needle coke. Needle coke is the key raw material in the manufacture of graphite electrodes which are consumed in EAF steel production. Petroleum needle coke, a crystalline form of carbon derived from decant oil is used primarily in the production of graphite electrodes. Graphite electrode producers combine petroleum or pitch needle coke with pitch adhesives and other ingredients to form graphite electrodes.

Petroleum and pitch needle coke, relative to other varieties of coke, is distinguished by its needle-like structure and its quality, which is measured by the presence of impurities, principally sulfur, nitrogen and ash. The needle-like structure of petroleum and pitch needle coke encourages expansion along the length of the electrode, rather than the width, which reduces the likelihood of fractures. Impurities reduce quality because they increase the coefficient of thermal expansion and electrical resistivity of the graphite electrode, which can lead to uneven expansion and a build-up of heat and cause the graphite electrode to oxidize rapidly and break. Petroleum and pitch needle coke is typically low in these impurities. In order to minimize fractures caused by disproportionate expansion over the width of an electrode, and minimize the effect of impurities, large-diameter graphite electrodes (18 inches to 32 inches) employed in high-intensity electric arc furnace applications are comprised almost exclusively of petroleum and pitch needle coke.

## **ENGINEERED SOLUTIONS SEGMENT**

Demand for products in our engineered solutions segment recovered to near 2008 levels during 2010 as the global economy recovery process progressed. The electronic thermal management demand continued to grow and the business also benefited from increased activity in solar and other energy products.

Our Engineered Solutions segment had sales of \$181.5 million in 2008, \$120.9 million in 2009, and \$173.1 million in 2010. Engineered Solutions represented approximately 15% of consolidated net sales for 2008, approximately 18% for 2009 and approximately 17% for

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2010. We estimate that our addressable worldwide demand for engineered solutions was \$1,027 million in 2008, \$716 million in 2009, and \$1,100 million in 2010.

**Advanced Graphite Materials.** Our advanced graphite materials include products in a variety of shapes and grades, weighing up to ten metric tons, for diverse applications. Our products are used in many applications including fused refractory products and semiconductor components. In addition, certain of our materials, when combined with advanced flexible graphite, provide superior heat management solutions for insulation packages, induction furnaces, high temperature vacuum furnaces and direct solidification furnaces and other industrial thermal management applications.

**Natural Graphite Products.** We manufacture natural graphite products, consisting of flexible graphite. Applications include thermal management solutions used for the electronics, automotive, petrochemical, and transportation industries. We are one of the world's largest manufacturers of natural graphite products for these uses and applications.

## **BUSINESS STRATEGIES**

We believe that, by growing our revenues and operating income, successfully implementing LEAN initiatives, and maximizing our cash flows, we will deliver enhanced financial performance and return on shareholder value, and also position us to capitalize on growth opportunities that may arise. We have transformed our operations, building competitive advantages to enable us to compete successfully in our major product lines, to realize enhanced performance as economic conditions improve and to exploit growth opportunities from our intellectual property portfolio. Our business strategies are designed to expand upon our competitive advantages by:

**Leveraging Our Unique Global Manufacturing Network.** We believe that our global manufacturing network provides us with competitive advantages in product quality, product costs, timely and reliable delivery, and operational flexibility to adjust product mix to meet the diverse needs of a wide range of segments and customers.

We continue to leverage our network to seek to achieve significant increases in throughput generated from our existing assets, through productivity improvements, capital expenditures, and other efficiency initiatives. We believe we can further exploit our network by focusing our technical and customer service capabilities on:

the increasing number of large global customers created by the consolidation trend within the steel industry, to whom we believe we are well positioned to offer products that meet their volume, product quality, product mix, delivery reliability and service needs at competitive prices; and

customers in targeted segments where we have competitive advantages to meet identified customer needs due to the range and quality of our products, the utilization of our capacity, the value of our customer technical service and our low cost supplier advantage.

We sell our products in every major geographic region. Sales of our products to buyers outside the U.S. accounted for about 83% of net sales in 2008, 82% of net sales in 2009, and about 80% of net sales in 2010. No single customer or group of affiliated customers accounted for more than 10% of our total net sales in 2008, 2009 or 2010.

**Driving Continuous Improvement with LEAN and Six Sigma.** We believe a consistent focus on our customers and diligence towards aligning our processes to satisfy these customers is essential in today's global market. We have undertaken a comprehensive launch of LEAN and Six Sigma with dedicated resources at all of our key manufacturing plants intended to create a common language and tool set centering around LEAN and Six Sigma.

Our focus on waste reduction using a team approach creates knowledge at all levels of the organization. Concentrating on creating flow within processes enables us to capitalize on lower inventories while still maintaining high on-time-delivery. Our metric driven behavior and instituting solid corrective actions to anomalies drives us towards customer centric solutions.

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We believe we will be able to continue to leverage our stream-lined processes as a sustainable competitive advantage with shorter lead times, lower costs, higher quality products, and exceptional service. We are applying these methodologies and tools to not only our manufacturing processes; but also to our transactional and business processes such as Accounts Receivable, New Product Introduction, and Cash Forecasting in order to develop a high-performing value stream.

***Accelerating Commercialization of Advantaged Technologies.*** We believe that our technological capabilities for developing products with superior thermal, electrical and physical characteristics provide us with a potential growth opportunity as well as a competitive advantage. We seek to exploit these capabilities and our intellectual property portfolio to accelerate development and commercialization of these technologies across all of our businesses, to improve existing products, and to develop and commercialize new products for higher growth rate areas such as electronic thermal management technologies. We received *R&D Magazine*'s prestigious R&D 100 Award in six of the past eight years. The R&D 100 Award honors the 100 most technologically significant products introduced into the marketplace each year. We received this award in 2003 and 2004 for our achievements in electronic thermal management products, in 2005 for our large-diameter pinless graphite electrodes, in 2006 for GRAFOAM® carbon foam, a unique high strength, light weight carbon foam, in 2007 for GrafCell® flow field plates, a key component to the commercialization of fuel cells, and in 2009 for our GRAFIHX Flexible Heat Exchangers, a graphite solution uniquely suited for radiant floor heating systems.

***Delivering Exceptional and Consistent Quality.*** We believe that our products are among the highest quality products available in our industry. We have been recognized as a preferred or certified supplier by many major steel companies and have received numerous technological innovation and other awards by industry groups, customers and others. Using our technological capabilities, we continually seek to improve the consistent overall quality of our products and services, including the performance characteristics of each product, the uniformity of the same product manufactured at different facilities and the expansion of the range of our products. We believe that improvements in overall quality create significant efficiencies and opportunities for us, provide us the opportunity to increase sales volumes and potential demand share, and create production efficiencies for our customers.

***Providing Superior Technical Service.*** We believe that we are recognized as one of the industry leaders in providing value added technical services to customers for our major product lines. We believe that we have one of the largest customer technical service and related supporting engineering and scientific organizations in our industry, with more than 200 engineers, scientists and specialists around the world. A portion of these employees assist key steel and other metals customers in furnace applications, operations and upgrades to reduce energy consumption, improve raw material costs and increase output.

***Maintaining Liquidity and Building Stockholder Value.*** We believe that our business strategies support our goal of growing revenues and operating income and maximizing the cash generated from operations. Maintaining liquidity remains a priority for us. At December 31, 2010, we had outstanding borrowings under our Revolving Facility of \$130.0 million, \$143.4 million outstanding related to Senior Subordinated Notes, and cash and cash equivalents of \$13.1 million. We had no borrowings under our Revolving Facility at December 31, 2009 and our cash and cash equivalents exceeded \$50 million.

We continually review our assets, product lines and businesses to seek out opportunities to maximize value, through re-deployment, merger, acquisition, divestiture or other means, which could include taking on more debt or issuing more equity. We may at any time buy or sell assets, product lines or businesses.

## **PRODUCTION PLANNING**

We plan and source production of our products globally. We have evaluated virtually every aspect of our global supply chain, and we have redesigned and implemented changes to our global manufacturing, marketing and sales processes to leverage the strengths of our repositioned manufacturing network. Among other

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things, we have reduced manufacturing bottlenecks, improved product and service quality and delivery reliability, expanded our range of products, and improved our global sourcing for our customers.

We deploy synchronous work processes at most of our manufacturing facilities. We have also installed and continue to install and upgrade proprietary process technologies at our manufacturing facilities, use statistical process controls in our manufacturing processes for all products, and employ LEAN processing improvement techniques.

Our global manufacturing network also helps us to minimize risks associated with dependence on any single economic region.

## **MANUFACTURING**

**Graphite Electrode.** The manufacture of a graphite electrode takes, on average, about two months. We manufacture graphite electrodes ranging in size up to 30 inches in diameter and over 11 feet in length, and weighing as much as 5,900 pounds (2.6 metric tons). The manufacture of graphite electrodes includes six main processes: forming the electrode, baking the electrode, impregnating the electrode with a special pitch that improves the strength, rebaking the electrode, graphitizing the electrode using electric resistance furnaces, and machining.

We generally warrant to our customers that our electrodes will meet our specifications. Electrode returns and replacements have been immaterial in the aggregate to net sales in each of the last three years.

We manufacture graphite electrodes in the United States, Mexico, Brazil, South Africa, France and Spain. We have an electrode machining center in Russia.

**Refractory Products.** Refractory bricks are manufactured in the United States, using a proprietary hot press process. We have two primary grades of refractory products. The manufacture of a refractory block begins with the mixing and blending of the raw materials. The raw materials are fed into molds and pressed into shape. Intense heat and pressure are then applied. The bricks are then cooled and then cut into the desired shapes. Our bricks are generally smaller than our competitors' products. We believe our smaller brick size creates an easier installation process compared to larger bricks. We manufacture refractory bricks into sizes up to 18 inches, although we can manufacture bricks into a multitude of sizes and shapes to meet the needs of our customers.

**Petroleum Needle and Pitch Coke Products.** Petroleum needle coke is produced through a manufacturing process very similar to a refinery. The production process converts decant oil into petroleum needle coke shaped in a needle-like structure. Pitch coke is produced using coal-tar pitch. We produce petroleum needle coke at one manufacturing facility in the U.S.

**Advanced Graphite Materials.** Advanced graphite materials are manufactured using processes and technologies similar to those of graphite electrodes. Manufacturing lead times range between four to six months for most products and depend on the specific material properties that are needed to be imparted in the final billet. After the forming, baking, impregnation, rebaking and graphitization steps, the billets are either dressed and sold as raw stock or are machined into custom parts against proprietary specifications supplied by our customers. We produce advanced graphite materials in the United States, South Africa, Brazil, France and Italy.

**Natural Graphite Products.** We use a proprietary process to convert mined natural graphite flake into expandable graphite, an intermediate product. We manufacture flexible graphite by subjecting expandable graphite to additional proprietary processing. Our natural graphite business operates two manufacturing facilities in the U.S. We believe that we operate one of the world's most technologically sophisticated advanced natural graphite production lines.

**Quality Standards and Maintenance.** Most of our global manufacturing facilities are certified and registered to ISO 9001-2008 international quality standards and some are certified to QS 9001-2008. Natural graphite has a quality assurance system designed to meet the most stringent requirements of its customers and is ISO TS 16949:2009 certified. Maintenance at our facilities is conducted on an ongoing basis.

**Raw Materials and Suppliers.** The primary raw materials for electrodes are engineered by-products and

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residues of the petroleum and coal industries. We use these raw materials because of their high carbon content. The primary raw materials for graphite electrodes are calcined needle coke and pitch. We purchase raw materials from a variety of sources and believe that the quality and cost of our raw materials on the whole is competitive with those available to our competitors.

We were parties to long-term contracts with ConocoPhillips for the supply of petroleum coke, our primary raw material. These supply agreements contained customary terms and conditions including annual price negotiations, dispute resolution and termination provisions, including, upon a termination, a three-year supply arrangement with reducing volume commitments. During 2010, these termination provisions were exercised, and the contracts were formally terminated as of December 31, 2010. In accordance with the termination provisions, we have negotiated three-year supply arrangements with ConocoPhillips, for quantities of needle coke which we believe are sufficient for our raw material requirements as currently forecast.

We have firm price contracts for the bulk of our 2011 needle coke requirements. We expect to purchase approximately 35% of our 2011 needle coke requirements from Seadrift.

Raw materials for refractory products are primarily sourced internally and from a variety of third parties. The primary raw material used in refractory products is crushed graphite.

The primary raw material used by Seadrift to make petroleum needle coke is decant oil, a by-product of the gasoline refining process. Seadrift is not dependent on any single refinery for decant oil. While Seadrift has purchased a substantial majority of its raw material inventory from two or three suppliers in recent years, we believe that there is an abundant supply of decant oil in the United States available from a variety of sources on similar terms.

We purchase energy from a variety of sources. Electric power used in manufacturing processes is purchased from local suppliers under contracts with pricing based on rate schedules or price indices. Our electric costs can vary significantly depending on these rates and usage. Natural gas used in manufacturing processes is purchased from local suppliers primarily under annual volume contracts with pricing based on various natural gas price indices.

## **DISTRIBUTION**

We deploy various demand management and inventory management techniques to seek to ensure we can meet our customers' delivery requirements while still maximizing the utilization of our production capacity. We can experience significant variation in our customers' delivery requirements as their specific needs vary and change through the year. We generally seek to maintain appropriate inventory levels, taking into account these factors as well as the significant differences in manufacturing cycle times for graphite electrode products and our customers' products.

Finished products are usually stored at our manufacturing facilities. Limited quantities of some finished products are also stored at local warehouses around the world to meet customer needs.

## **SALES AND CUSTOMER SERVICE**

Our product quality, our global manufacturing network and our low cost structure allow us to deliver a broad range of product offerings across various segments. We differentiate and sell the value of our product offerings, depending on the segment or specific product application, primarily based on product quality and performance, delivery reliability, price, and customer technical service.

We price our products based on the value that we believe we deliver to our customers. Pricing may vary within any given industry, depending on the segment within that industry and the value of the offer to a specific customer. We believe that we can achieve increased competitiveness, customer demand, and profitability through our value added offerings to customers. In certain segments where the product is less differentiated, these value added offerings have less impact on our competitiveness. Historically, our graphite electrode customers generally seek to negotiate to secure the reliable supply of their anticipated volume requirements on an annual basis, sometimes called the "graphite electrode book building process". These orders are subject to renegotiation or adjustment to meet changing conditions. The remainder of our graphite electrode

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customers purchase their electrodes as needed at then current market prices (i.e., at the spot price).

We believe that we are one of the recognized industry leaders in providing value added technical services to customers for our major product lines, and that we have one of the largest customer technical service and related supporting engineering and scientific organizations in our industry, with more than 200 engineers, scientists and specialists around the world.

We deploy these selling methods and our customer technical service to address the specific needs of all products. Our direct sales force operates from 15 sales offices located around the world.

**Industrial Materials.** We sell our Industrial Materials segment products primarily through our direct sales force, independent sales representatives and distributors, all of whom are trained and experienced with our products.

We have customer technical service personnel based around the world to assist customers to maximize their production and minimize their costs. We employ about 162 engineers and technicians in our Industrial Materials segment, a portion of whom provide technical service and advice to key steel and other metals customers. These services include furnace applications and operation, as well as furnace upgrades to reduce energy consumption, improve raw material costs and increase output.

**Engineered Solutions.** Our Engineered Solutions products are sold using direct employees and independent sales representatives and distributors in all major geographic regions of the world including North and South America, Africa, Europe and Asia.

The majority of our products are custom built to customer specifications after an iterative review process between the customer's engineers and our sales and technical service employees. Our sales personnel are trained and experienced with the products they sell. We provide technical service to our customers through dedicated technical service engineers who operate out of our North American and European facilities. We believe that our technical service differentiates us from our competition and take pride in our ability to support the technical requirements of our customers.

## **TECHNOLOGY**

We believe that we are an industry leader in graphite and carbon materials science and high temperature processing know-how and that we operate premier research, development and testing facilities for our industry. We have 125 years of experience in the research and development of graphite and carbon technologies. Over the past several years, we have analyzed our intellectual property portfolio to identify new product opportunities with high growth potential for us, redirected research to enhance and exploit our portfolio and accelerated development of such products.

**Research and Development.** We conduct our research and development both independently and in conjunction with our strategic suppliers, customers and others. We have a dedicated technology center located at our corporate headquarters in Ohio, which focuses on all products. We also have a pilot plant that has the capability to produce small or trial quantities of new or improved graphite products, to accelerate scale-up and market entry. In addition, we have a state-of-the-art testing facility located at our headquarters capable of conducting physical and analytical testing for those products. The activities at these centers and facilities are integrated with the efforts of our engineers at our manufacturing facilities who are focused on improving manufacturing processes.

Research and development expenses amounted to \$12.2 million, \$9.4 million and \$12.2 million in 2008, 2009 and 2010, respectively.

We believe that our technological and manufacturing strengths and capabilities provide us with a significant growth opportunity as well as a competitive advantage and are important factors in the selection of us by industry leaders and others as a strategic partner. Our technological capabilities include developing products with superior thermal, electrical and physical characteristics that provide a differentiating advantage. We seek to exploit these strengths and capabilities across all of our businesses, to improve existing products and to develop and commercialize new products with high growth potential.

A significant portion of our research and development is focused on new product development, particularly engineered solutions for advanced energy

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applications such as solar silicon manufacturing, electronic thermal management, energy storage and generation. Other significant work focuses on advancements in electrode technology and raw material optimization.

**Intellectual Property.** We believe that our intellectual property, consisting primarily of patents and proprietary know-how, provides us with competitive advantages and is important to our growth opportunities. Our intellectual property portfolio is extensive, with close to 400 U.S. and foreign patents, as well as close to 400 pending U.S. and foreign carbon and graphite related patent applications, which we believe, is more than any of our major competitors. Among our competitors, we hold one of the largest number of patents for flexible graphite as well as the largest number of patents relating to the use of natural graphite for certain fuel cell applications. In addition, we have obtained exclusive and non-exclusive licenses to various U.S. and foreign patents relating to our technologies. These patents and licenses expire at various times over the next two decades.

We own, and have obtained licenses to, various trade names and trademarks used in our businesses. For example, the trade name and trademark UCAR are owned by Union Carbide Corporation (which has been acquired by Dow Chemical Company) and are licensed to us on a worldwide, exclusive and royalty-free basis until 2025. This particular license automatically renews for successive ten-year periods. It permits non-renewal by Union Carbide in 2025 or at the end of any renewal period upon five years' notice of non-renewal.

We rely on patent, trademark, copyright and trade secret laws as well as appropriate agreements to protect our intellectual property. Among other things, we seek to protect our proprietary know-how and information, through the requirement that employees, consultants, strategic partners and others, who have access to such proprietary information and know-how, enter into confidentiality or restricted use agreements.

## **COMPETITION**

**Industrial Materials.** Competition in the industrial materials segment is intense and is based primarily on product differentiation and quality, delivery reliability, price, and customer service, depending on the segment or specific product application.

In the most demanding product applications (that is, graphite electrodes that can operate in the largest, most productive and demanding EAF steel mills in the world), we compete primarily on product quality, delivery reliability, and customer technical service. We believe these are prerequisite capabilities that not all producers of graphite electrodes possess or can demonstrate consistently. In this segment, we primarily compete with higher quality graphite electrode producers, although this segment of the graphite electrode demand has become increasingly competitive in recent years as graphite electrode producers have improved the quality of their offerings and become qualified suppliers to some of the largest and most sophisticated EAF customers.

In other product applications, including ladle furnaces requiring less demanding performance and certain other ferrous and non-ferrous segments, we compete based on product differentiation and product quality. Our product quality, unique global manufacturing network, proximity to regional and local customers and the related lower cost structure allows us to deliver a broad range of product offerings across these various segments.

We believe that there are no current commercially viable substitutes for graphite electrodes in EAF steel production.

Our refractory products business competes based on product quality, useful life, and technology. We believe our proprietary hot press process and the smaller shape of our refractory bricks provides a more diverse product that is easier to install than larger refractory bricks.

We believe that there are certain cost and technology barriers to entry into our industry, including the need for extensive product and process know-how and other intellectual property and a high initial capital investment. It also requires high quality raw material sources and a developed energy supply infrastructure. However, competing manufacturers, particularly Chinese manufacturers, have been able to expand their sales and manufacturing geographically.

There are a number of international graphite electrode producers, including SGL Carbon SE (Germany), Tokai Carbon Co., Ltd. (Japan), Showa Denko Carbon K.K. (Japan), Graphite India Limited (India), HEG

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Limited (India), SEC Corporation Limited (Japan), Nippon Carbon Co., Ltd. (Japan), Energoprom Group (Russia), Beijing FangDa Carbon Tech Co. Ltd. (China) and Sinosteel Corporation (China), as well as a number of others which are in China.

All graphite electrode manufacturers, even those without multinational manufacturing operations, are capable of, and many in fact are, supplying their products globally, and are experiencing increased competition from Indian, Russian and Chinese graphite electrode manufacturers. The Chinese government has strongly supported and invested heavily in industrial expansion in recent years and continues to do so. As a part of this expansion, Chinese production of graphite electrodes has increased and the quality of the electrodes produced in China has improved. The Chinese policy of maintaining a fixed rate of exchange of the Renminbi to the U.S. dollar may provide Chinese producers with a competitive advantage with respect to exports of graphite electrodes.

We believe there are currently approximately ten other firms producing UHP-grade needle coke. These competitors include ConocoPhillips, Petrocokes Japan Limited (Japan), Mitsubishi Chemical Company, Baosteel Group (China), C-Chem Co., Ltd. (Japan), Indian Oil Company Limited, Hongtai Chemical Industry (Group) Co., Ltd. (China), JX Holdings Inc. (Japan), Petrochina International Jinzhou Co., Ltd. (China) and Sinosteel Anshan Research Institute of Thermo-Energy Co. Ltd. (China). Competition in the needle coke industry is based primarily on service, price, reliability and efficiency of products. Our Seadrift facility competes primarily on the quality and price of its needle coke.

**Engineered Solutions.** Competitors of our engineered solutions segment compete on product differentiation and innovation, quality, price, delivery reliability and customer service depending on the specific demands or product applications.

We believe we are the technology leader within the segments we participate in, and we differentiate ourselves based on our ability to provide customers with a solution that gives them one of the lowest total operational costs in meeting their product manufacturing needs. We achieve this by using our extensive product, process and application knowledge.

We believe there are certain barriers to entry into this industry, including the need for extensive product and process know-how, intellectual property and a high initial capital investment.

We compete with other major specialty graphite competitors who manufacture and sell on a global basis. These competitors include SGL Carbon A.G. (Germany), Tokai Carbon Co., Ltd. (Japan), Toyo Tanso Co., Ltd. (Japan), Mersen S.A. (France) and several other competitors, a number of which are in China.

## **ENVIRONMENTAL MATTERS**

We are subject to a wide variety of federal, state, local and foreign laws and regulations relating to the presence, storage, handling, generation, treatment, emission, release, discharge and disposal of wastes and other substances defined as hazardous or toxic, or otherwise believed to have potential to harm the environment or human health, which govern our current and former properties, neighboring properties and our current operations worldwide. These laws and regulations (and the enforcement thereof) are periodically changed and are becoming increasingly stringent. We have experienced some level of regulatory scrutiny at most of our current and former facilities, and have been required to take corrective or remedial actions and incur related costs in the past, and may experience further regulatory scrutiny, and may be required to take further corrective or remedial actions and incur additional costs in the future. Although it has not been the case in the past, these costs could have a material adverse effect on us in the future.

The principal U.S. laws and regulations to which we are subject include:

the Clean Air Act, the Clean Water Act and the Resource Conservation and Recovery Act and similar state and local laws which regulate air emissions, water discharges and hazardous waste generation, treatment, storage, handling, transportation and disposal;

the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, and the Small Business Liability Relief and Brownfields

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Revitalization Act of 2002, and similar state laws that provide for the reporting of, responses to and liability for releases of hazardous substances into the environment; and

the Toxic Substances Control Act and related laws that are designed to track and control chemicals that are produced or imported into the United States and assess the risk to health and to the environment of new products at early developmental stages.

Further, laws adopted or proposed in various states impose or may impose, as the case may be, reporting or remediation requirements if operations cease or property is transferred or sold.

We believe that we are currently in material compliance with the federal, state, local and foreign environmental laws and regulations to which we are subject. We have received and may in the future receive notices from the U.S. Environmental Protection Agency ( U.S. EPA ) or state environmental protection agencies, as well as claims from other parties, alleging that we are a potentially responsible party ( PRP ) under Superfund and similar state laws for past and future remediation costs at waste disposal sites and other contaminated properties. Although Superfund liability is joint and several, in general, final allocation of responsibility at sites where there are multiple PRPs is made based on each PRP s relative contribution of hazardous substances to the site. Based on information currently available to us, we believe that any potential liability we may have as a PRP will not have a material adverse effect on us.

As a result of amendments to the Clean Air Act enacted in 1990, certain of our facilities have been or will be required to comply with new reporting requirements and standards for air emissions that have been or may be adopted by the U.S. EPA and state environmental protection agencies over the next several years pursuant to regulations that have been or could be promulgated, including potentially the promulgation of maximum achievable control technology standards for the carbon and graphite manufacturing industry. The regulations that have been promulgated to date have necessitated use of additional administrative and engineered controls, and changes in certain manufacturing processes, in order for us to achieve compliance with these regulations. Similar foreign laws and regulations have been or may also be adopted to establish new standards for air emissions, which may also require additional controls on our manufacturing operations outside the U.S. Based on information currently available to us, we believe that compliance with these regulations will not have a material adverse effect on us.

Our manufacturing operations outside the U.S. are also subject to the laws and regulations of the countries in which those operations are conducted. These laws and regulations primarily relate to pollution prevention and the control of the impacts of industrial activities on the quality of the air, water and soil. Regulated activities include, among other things: use of hazardous substances; packaging, labeling and transportation of products; management and disposal of toxic wastes; discharge of industrial and sanitary wastewater; and process emissions to the air. Under the European Union s ( EU ) regulations concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (commonly referred to as REACH ), enacted in 2007, manufacturers and importers into the EU of certain chemical substances are required to register and evaluate their potential impacts on human health and the environment. Under REACH, the continued importation into the EU, manufacture and/or use of certain chemical substances may be restricted, and manufacturers and importers of certain chemicals will be required to undertake evaluations of those substances. The requirements of REACH are being phased in over a period of years, and compliance is requiring and will continue to require expenditures and resource commitments. Based on information currently available to us, we believe that compliance with these regulations will not have a material adverse effect on us.

International accords, foreign laws and regulations, and U.S. federal, state and local laws and regulations are increasingly being enacted to address concerns about the effects that carbon dioxide emissions and other identified greenhouse gases ( GHG ) may have on the environment and climate worldwide. These effects are widely referred to as Climate Change. Some members of the international community have taken actions in the past to address Climate Change issues on a

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global basis. The Kyoto Protocol, which was ratified in 1997, set binding GHG emission reduction targets for the participating industrialized countries. Members of the international community have been meeting since 2007 in the interest of negotiating a future treaty to replace the Kyoto Protocol, which will expire in 2012. Although the U.S. did not ratify the Kyoto Protocol, it is possible that the U.S. would sign a new international Climate Change treaty. The EU Emissions Trading Scheme ( EU ETS ), enacted under the provisions of the Kyoto Protocol, requires certain listed energy-intensive industries to participate in an international cap and trade system of GHG emission allowances. As carbon and graphite manufacturing is not a covered industry under the current EU ETS, our European operations are not required to comply with these provisions. However, the EU ETS will also expire in 2012 and will likely be replaced by similar legislation that could cover some or all of our manufacturing operations in Europe. Should that happen, our European operations could incur additional expenses to purchase emission allowances in the open trading market.

In the U.S., similar Climate Change legislation has also been proposed in Congress but has not been enacted. Such legislation could be passed in the future and could limit GHG emissions from covered entities through a similar cap and trade system to reduce the quantity of national GHG emissions in accordance with established goals and deadlines. One or more of our U.S. facilities could be covered by such new legislation and the company could be required to purchase emission allowances, depending on the final promulgated GHG emission thresholds, availability of government-granted free emission allowances to energy-intensive or trade vulnerable industries, and other unknown variables.

On October 30, 2009, a Final Mandatory Reporting of Greenhouse Gases Rule was issued in the U.S., which as of the January 1, 2010 effective date, requires facilities with specified GHG sources that emit over the annual threshold quantities to monitor and report their GHG emissions. Corporations that are large suppliers of petroleum products (including, by definition, importers and exporters) must also submit an annual activity report to the U.S. EPA. Some of our operations are covered under this Rule, and we believe that we have the necessary administrative systems in place to comply with the requirements. Under various other foreign and U.S. state regulations, we are currently required to report certain GHG emissions to the pertinent authorities. Furthermore, in December 2009, the U.S. EPA issued an endangerment and cause or contribute finding for GHG, under Section 202(a) of the Clean Air Act, allowing it to issue new rules that directly regulate GHG emissions under the existing federal New Source Review, Prevention of Significant Deterioration (PSD) and Title V Operating Permit programs. On May 13, 2010, the U.S. EPA set GHG emissions thresholds to define when permits under these programs are required for new and existing industrial facilities. Under these programs, new or significantly modified facilities must also use best available control technologies to minimize GHG emissions. Therefore, our U.S. facilities may be required in the future to modify our air permits, implement additional administrative and engineered controls, invest in capital improvements, and/or make changes in certain manufacturing processes in order for us to achieve compliance with these regulations or to expand our operations. Based on information currently available to us, we believe that compliance with these regulations will not have a material adverse effect on us.

We have sold or closed a number of facilities that had operated solid waste landfills on-site. In most cases where we divested the properties, we have retained ownership of the landfills. When our landfills were or are to be sold, we obtained or seek to obtain financial assurance we believe to be adequate to protect us from any potential future liability associated with these landfills. When we have closed landfills, we believe that we have done so in material compliance with applicable laws and regulations. We continue to monitor these landfills pursuant to applicable laws and regulations. To date, the costs associated with the landfills have not been, and we do not anticipate that future costs will be, material to us.

Estimates of future costs for compliance with U.S. and foreign environmental protection laws and regulations, and for environmental liabilities, are necessarily imprecise due to numerous uncertainties, including the impact of potential new laws and regulations, the availability and application of new and diverse technologies, the extent of insurance coverage, the discovery of contaminated properties, or the identification of new hazardous substance disposal sites

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at which we may be a PRP and, in the case of sites subject to Superfund and similar state and foreign laws, the final determination of remedial requirements and the ultimate allocation of costs among the PRPs. Subject to the inherent imprecision in estimating such future costs, but taking into consideration our experience to date regarding environmental matters of a similar nature and facts currently known, we estimate that our costs and capital expenditures (in each case, before adjustment for inflation) for environmental protection regulatory compliance programs and for remedial response actions will not increase materially over the next several years.

Furthermore, we establish accruals for environmental liabilities when it is probable that a liability has been or will be incurred, and the amount of the liability can be reasonably estimated. We adjust these accruals as new remedial actions or other commitments are made, and when new information becomes available that changes the estimates previously made.

## **INSURANCE**

We maintain insurance against civil liabilities relating to personal injuries to third parties, for loss of or damage to property, for business interruptions and for environmental matters, that provides coverage, subject to the applicable coverage limits, deductibles and retentions, and exclusions, that we believe are appropriate upon terms and conditions and for premiums that we consider fair and reasonable in the circumstances. We cannot assure you, however, that we will not incur losses beyond the limits of or outside the coverage of our insurance.

## **EMPLOYEES**

At December 31, 2010, we had 2,915 employees (excluding contractors), an increase of 768 employees compared to 2009. Of this 768 employee increase, 296 were related to the Seadrift and C/G acquisitions. A total of 555 employees were in Europe (including Russia), 866 were in Mexico and Brazil, 429 were in South Africa, 1 was in Canada, 1,054 were in the U.S. and 10 were in the Asia Pacific region. At December 31, 2010, 1,602 of our employees were hourly employees.

At December 31, 2010, approximately 53% of our worldwide employees were covered by collective bargaining or similar agreements, which expire at various times in each of the next several years. At December 31, 2010, about 1,287 employees, or 44% of our employees, were covered by agreements which expire, or are subject to renegotiation, at various times through December 31, 2011. We believe that, in general, our relationships with our unions are satisfactory and that we will be able to renew or extend our collective bargaining or similar agreements on reasonable terms as they expire. We cannot assure, however, that renewed or extended agreements will be reached without a work stoppage or strike or will be reached on terms satisfactory to us.

We have not had any material work stoppages or strikes during the past decade.

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### Item 1A. Risk Factors

*An investment in our securities involves a high degree of risk. The risks described below are not the only ones facing us. Additional risks not presently known to us, or that we currently deem immaterial, may also have a material adverse effect on us. If any of the following risks actually occur, our financial condition, results of operations, cash flows or business could be harmed. In that case, the market price of our securities could decline, and you could lose part or all of your investment.*

#### **RISKS RELATING TO US**

##### **A downturn in global economic conditions may materially adversely affect our business.**

Our business and results of operations are affected by international, national and regional economic conditions. Financial markets in the United States, Europe and Asia experienced extreme disruption in the second half of 2008 and much of 2009, including, among other things, extreme volatility in security prices, severely diminished liquidity and credit availability, ratings downgrades of certain investments and declining values of others. The global economy was in a recession. Slowing, or declining, economic growth in the United States and elsewhere caused our customers to delay or reduce purchases which, in turn, resulted in reductions in sales of our products, longer sales cycles and increased price competition, materially and adversely affecting our financial position and results of operations.

We believe that in the graphite electrode markets in which we compete, the capacity utilization rate was over 95% in the first nine months of 2008, but, as a result of the financial crisis and the global economic slowdown, fell dramatically in the fourth quarter of 2008 and we estimate they were less than 50% at the end of the year. We believe capacity utilization rates averaged 60% for the full year 2009. These lower capacity utilization rates adversely affected our financial position and results of operation in 2009.

In 2010, the global economy began a gradual recovery from the significant downturn in the second half of 2008 and all of 2009. The International Monetary Fund reported GDP growth figures for 2010 at approximately 3.9%. Based on this recovery, we believe that in the graphite electrode markets in which we compete, the capacity utilization rate was approximately 80%. While improved, these lower than pre-crisis capacity utilization rates continued to adversely affect our financial position and results of operation for 2010.

While stabilization appears to have begun, the global economy remains fragile and market demand remains below pre-crisis levels. The recovery that began in 2010 is expected to continue at a gradual pace in 2011. Economists remain cautiously optimistic regarding 2011, with the recovery remaining sluggish in advanced countries (Belgium, Canada, France, Germany, Italy, Japan, South Korea, Spain, Taiwan, United Kingdom, and United States) and stronger in emerging countries (Brazil, China, India, Mexico, Poland, Russia, South Africa, Turkey, and Ukraine). The twenty countries listed above represent approximately 80% of global GDP. In addition, they represent approximately 85% of global steel demand and 90% of steel production. A key to sustaining world recovery will be the global rebalancing of trade between the advanced and emerging countries. Downside risks remain for 2011, including high unemployment, reduced consumer spending, high deficit spending from governments, turbulent financial markets (in Euro area) and inflation.

##### **We are dependent on the global steel industry and also sell products used in the transportation, semiconductor, solar, petrochemical, electronics, and other industries which are susceptible to global and regional economic downturns.**

We sell our industrial materials products, which accounted for about 83% of our total net sales in 2010, primarily to the EAF steel production industry. Many of our other products are sold primarily to the transportation, solar, oil and gas exploration industries. These are global basic industries, and they are experiencing various degrees of contraction, growth and consolidation. Customers in these industries are located in every major geographic region. As a result, our customers are affected by changes in global and regional economic conditions. This, in turn, affects overall demand and prices for our products sold to these industries. As a result of changes in economic conditions, demand and pricing for our products sold to these industries has fluctuated and in some cases declined significantly.

Demand for our products sold to these industries may be adversely affected by improvements in

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our products as well as in the manufacturing operations of customers, which reduce the rate of consumption or use of our products. Our customers, including major steel producers, are experiencing and may continue to experience downturns or financial distress that could adversely impact our ability to collect our accounts receivable or to collect them on a timely basis.

Sales volumes and prices of our products sold to these industries are impacted by the supply/demand balance as well as overall changes in demand, and growth of and consolidation within, the end markets for our products. In addition to the factors mentioned above, the supply/demand balance is affected by factors such as business cycles, rationalization, and increases in capacity and productivity initiatives within our industry and the end markets for our products, some of which factors are affected by decisions by us.

The steel industry, in particular, has historically been highly cyclical and is affected significantly by general economic conditions. Significant customers for the steel industry include companies in the automotive, construction, appliance, machinery, equipment and transportation industries, all of which continue to be affected by the general economic downturn and the deterioration in financial markets, including severely restricted liquidity and credit availability.

In addition, a continuation of the current difficult economic conditions may lead current or potential customers of our Engineered Solutions business to delay or reduce technology purchases or slow their adoption of new technologies. This may result in a continued reduction, or slower rate of recovery, of sales of our Engineered Solutions products and increased price competition, which could materially and adversely affect our financial position and results of operations.

**We are subject to restrictive covenants under the Revolving Facility and expect to be subject to restrictive covenants under any renewal or refinancing thereof. These covenants could significantly affect the way in which we conduct our business. Our failure to comply with these covenants could lead to an acceleration of our debt.**

The Revolving Facility contains a number of covenants that, among other things, restrict our ability to: sell assets; incur, repay or refinance indebtedness; create liens; make investments or acquisitions; engage in mergers or acquisitions; pay dividends; repurchase stock; or make capital expenditures.

The Revolving Facility also requires us to comply with specified financial covenants, including minimum interest coverage and maximum senior secured leverage ratios. We cannot borrow under the Revolving Facility if the additional borrowings would cause us to breach the financial covenants.

Our ability to continue to comply with applicable covenants may be affected by events beyond our control. The breach of any of the covenants contained in the Revolving Facility, unless waived, would be a default under the Revolving Facility. This would permit the lenders to terminate their commitments to extend credit under, and accelerate the maturity of, the Revolving Facility. The acceleration of our debt could have a material adverse effect on our financial condition and liquidity. If we were unable to repay our debt to the lenders and holders or otherwise obtain a waiver from the lenders and holders, we could be forced to reduce or delay capital expenditures; sell assets or businesses; limit or discontinue, temporarily or permanently, business plans regarding operations; obtain additional debt or equity financing; seek protection under applicable debtor protection statutes, or restructure or refinance debt.

We expect that any renewal or refinancing of the Revolving Facility will contain covenants that may be as restrictive, or more restrictive, than the covenants contained in the Revolving Facility and would extend to the lenders thereunder remedies, in the event of any default, similar to those provided to the lenders under the Revolving Facility described above.

**Disruptions in the capital and credit markets, which may continue indefinitely or intensify, could adversely affect our results of operations, cash flows and financial condition, or those of our customers and suppliers.**

Disruptions in the capital and credit markets may adversely impact our results of operations, cash flows and financial condition, or those of our customers and suppliers. Disruptions in the capital and credit markets as a result of uncertainty, changing or increased regulation,

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reduced alternatives or failures of significant financial institutions could adversely affect our access to liquidity needed to conduct or expand our businesses or conduct acquisitions or make other discretionary investments, as well as our ability to effectively hedge our currency or interest rate risks and exposures. Such disruptions may also adversely impact the capital needs of our customers and suppliers, which, in turn, could adversely affect our results of operations, cash flows and financial condition.

### **We are subject to risks associated with operations in multiple countries.**

A substantial majority of our net sales are derived from sales outside the U.S., and a substantial majority of our operations and our total property, plant and equipment and other long-lived assets are located outside the U.S. As a result, we are subject to risks associated with operating in multiple countries, including:

currency devaluations and fluctuations in currency exchange rates, including impacts of transactions in various currencies, impact on translation of various currencies into dollars for U.S. reporting and financial covenant compliance purposes, and impacts on results of operations due to the fact that costs of our foreign subsidiaries are primarily incurred in local currencies while their products are primarily sold in dollars and Euros;

imposition of or increase in customs duties and other tariffs;

imposition of or increase in currency exchange controls, including imposition of or increases in limitations on conversion of various currencies into dollars, Euros, or other currencies, making of intercompany loans by subsidiaries or remittance of dividends, interest or principal payments or other payments by subsidiaries;

imposition of or increase in revenue, income or earnings taxes and withholding and other taxes on remittances and other payments by subsidiaries;

imposition of or increases in investment or trade restrictions by the U.S. or by non-U.S. governments or trade sanctions adopted by the U.S.;

inability to definitively determine or satisfy legal requirements, inability to effectively enforce contract or legal rights and inability to obtain complete financial or other information under local legal, judicial, regulatory, disclosure and other systems; and

nationalization or expropriation of assets, and other risks which could result from a change in government or government policy, or from other political, social or economic instability.

We cannot assure you that such risks will not have a material adverse effect on us or that we would be able to mitigate such material adverse effects in the future.

In addition to the factors noted above, our results of operations and financial condition are affected by inflation, deflation and stagflation in each country in which we have a manufacturing facility. We cannot assure you that future increases in our costs will not exceed the rate of inflation or the amounts, if any, by which we may be able to increase prices for our products.

### **Our ability to grow and compete effectively depends on protecting our intellectual property. Failure to protect our intellectual property could adversely affect us.**

We believe that our intellectual property, consisting primarily of patents and proprietary know-how and information, is important to our growth. Failure to protect our intellectual property may result in the loss of the exclusive right to use our technologies. We rely on patent, trademark, copyright and trade secret laws and confidentiality and restricted use agreements to protect our intellectual property. Some of our intellectual

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property is not covered by any patent or patent application or any such agreement.

Patents are subject to complex factual and legal considerations. Accordingly, there can be uncertainty as to the validity, scope and enforceability of any particular patent. Therefore, we cannot assure you that:

any of the U.S. or foreign patents now or hereafter owned by us, or that third parties have licensed to us or may in the future license to us, will not be circumvented, challenged or invalidated;

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any of the U.S. or foreign patents that third parties have non-exclusively licensed to us, or may non-exclusively license to us in the future, will not be licensed to others; or

any of the patents for which we have applied or may in the future apply will be issued at all or with the breadth of claim coverage sought by us.

Moreover, patents, even if valid, only provide protection for a specified limited duration.

We cannot assure you that agreements designed to protect our proprietary know-how and information will not be breached, that we will have adequate remedies for any such breach, or that our strategic alliance suppliers and customers, consultants, employees or others will not assert rights to intellectual property arising out of our relationships with them.

In addition, effective patent, trademark and trade secret protection may be limited, unavailable or not applied for in the U.S. or in any of the foreign countries in which we operate.

Further, we cannot assure you that the use of our patented technology or proprietary know-how or information does not infringe the intellectual property rights of others.

Intellectual property protection does not protect against technological obsolescence due to developments by others or changes in customer needs.

The protection of our intellectual property rights may be achieved, in part, by prosecuting claims against others whom we believe have misappropriated our technology or have infringed upon our intellectual property rights, as well as by defending against misappropriation or infringement claims brought by others against us. Our involvement in litigation to protect or defend our rights in these areas could result in a significant expense to us, adversely affect the development of sales of the related products, and divert the efforts of our technical and management personnel, regardless of the outcome of such litigation.

If necessary, we may seek licenses to intellectual property of others. However, we can give no assurance to you that we will be able to obtain such licenses or that the terms of any such licenses will be acceptable to us. Our failure to obtain a license from a third party for its intellectual property that is necessary for us to make or sell any of our products could cause us to incur substantial liabilities and to suspend the manufacture or shipment of products or use of processes requiring the use of such intellectual property.

### **Our current and former manufacturing operations are subject to increasingly stringent health, safety and environmental requirements.**

We use and generate hazardous substances in our manufacturing operations. In addition, both the properties on which we currently operate and those on which we have ceased operations are and have been used for industrial purposes. Further, our manufacturing operations involve risks of personal injury or death. We are subject to increasingly stringent environmental, health and safety laws and regulations relating to our current and former properties, neighboring properties, and our current raw materials, products, and operations. These laws and regulations provide for substantial fines and criminal sanctions for violations and sometimes require evaluation and registration of the installation of costly pollution control or safety equipment or costly changes in operations to limit pollution or decrease the likelihood of injuries. It is also possible that the impact of such regulations on our suppliers could affect the availability and cost of our raw materials. In addition, we may become subject to potential material liabilities for the investigation and cleanup of contaminated properties, for claims alleging personal injury or property damage resulting from exposure to or releases of hazardous substances, or for personal injury as a result of an unsafe workplace. Further, alleged noncompliance with or stricter enforcement of, or changes in interpretations of, existing laws and regulations, adoption of more stringent new laws and regulations, discovery of previously unknown contamination or imposition of new or increased requirements could require us to incur costs or become the basis of new or increased liabilities that could be material.

### **We may face risks related to greenhouse gas emission limitations and climate change.**

There is growing scientific, political and public concern that emissions of greenhouse gases ( GHG ) are

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altering the atmosphere in ways that are affecting, and are expected to continue to affect, the global climate. Legislators, regulators and others, as well as many companies, are considering ways to reduce GHG emissions. GHG emissions are regulated in the European Union via an Emissions Trading Scheme ( ETS ), aka a Cap and Trade program. In the United States, environmental regulations issued in 2009 and 2010 will require reporting of GHG emissions by defined industries, activities and suppliers, and will regulate GHG as a pollutant covered under the New Source Review, Prevention of Significant Deterioration ( PSD ) and Title V Operating Permit programs of the Clean Air Act Amendments. It is possible that some form of regulation of GHG emissions will also be forthcoming in other countries in which we operate or market our products. Regulation of GHG emissions could impose additional costs, both direct and indirect, on our business, and on the businesses of our customers and suppliers, such as increased energy and insurance rates, higher taxes, new environmental compliance program expenses, including capital requirements, environmental monitoring, and the purchase of emission credits, and other administrative costs necessary to comply with current requirements and potential future requirements or limitations that may be imposed, as well as other unforeseen or unknown costs. To the extent that similar requirements and limitations are not imposed globally, such regulation may impact our ability to compete with companies located in countries that do not have such requirements or do not impose such limitations. The company may also realize a change in competitive position relative to industry peers, changes in prices received for products sold, and changes to profit or loss arising from increased or decreased demand for products produced by the company. The impact of any future GHG regulatory requirements on our global business will be dependent upon the design of the regulatory schemes that are ultimately adopted and, as a result, we are unable to predict their significance to our operations at this point in time.

The potential physical impacts of climate change on the company's operations are uncertain and will likely be particular to the geographic circumstances. These physical impacts may include changes in rainfall and storm patterns, shortages of water or other natural resources, changing sea levels, and changing global average temperatures. For instance, the company's Seadrift facility and those facilities supplying it, and the company's Calais facility, are located in geographic areas less than 50 feet above sea level. As a result, any future rising sea levels could have an adverse impact on their operations and on their suppliers. Due to these uncertainties, any future physical effects of climate change may or may not adversely affect the operations at each of our production facilities, the availability of raw materials, the transportation of our products, the overall costs of conducting our business, and the company's financial performance.

**We face certain litigation and legal proceedings risks that could harm our business.**

We are involved in various product liability, occupational, environmental, and other legal claims, demands, lawsuits and other proceedings arising out of or incidental to the conduct of our business. The results of these proceedings are difficult to predict. Moreover, many of these proceedings do not specify the relief or amount of damages sought. Therefore, as to a number of the proceedings, we are unable to estimate the possible range of liability that might be incurred should these proceedings be resolved against us. Certain of these matters involve types of claims that, if resolved against us, could give rise to substantial liability, which could have a material adverse effect on our financial position, liquidity and results of operations.

**We are dependent on supplies of raw materials and energy. Our results of operations could deteriorate if that supply is substantially disrupted for an extended period.**

We purchase raw materials and energy from a variety of sources. In many cases, we purchase them under short term contracts or on the spot market, in each case at fluctuating prices. The availability and price of raw materials and energy may be subject to curtailment or change due to:

limitations which may be imposed under new legislation or regulation;

supplier's allocations to meet demand of other purchasers during periods of shortage (or, in the case of energy suppliers, extended cold weather);

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interruptions or cessations in production by suppliers, and

market and other events and conditions.

Petroleum and coal products, including decant oil, petroleum coke and pitch, our principal raw materials, and energy, particularly natural gas, have been subject to significant price fluctuations.

We have in the past entered into, and may continue in the future to enter into, derivative contracts and short duration fixed rate purchase contracts to effectively fix a portion of our exposure to certain products.

A substantial increase in raw material or energy prices which cannot be mitigated or passed on to customers or a continued interruption in supply, particularly in the supply of decant oil, petroleum coke or energy, would have a material adverse effect on us.

### **Seadrift could be impacted by the availability of low sulfur decant oil and the pricing of needle coke feedstocks.**

Seadrift uses low sulfur decant oil in the manufacture of needle coke. There is no assurance that Seadrift will always be able to obtain an adequate quantity of suitable feedstocks or that capital would be available to install equipment to allow for utilization of higher sulfur decant oil, which is more readily available in the United States, in the event that suppliers of lower sulfur decant oil were to become more limited in the future. Seadrift purchases approximately two million barrels of low sulfur decant oil annually. The prices paid by Seadrift for such feedstocks are governed by the market for heavy fuel oils, which prices can fluctuate widely for various reasons including, among other things, worldwide oil shortages and cold winter weather. The substantial majority of Seadrift's needle coke is used in the manufacture of graphite electrodes, the price of which is subject to rigorous industry competition thus restricting Seadrift's ability to pass through raw material price increases.

### **There may be significant risks associated with acquisition activities that we may elect to pursue.**

We may seek to acquire other companies or product lines which are complementary to our existing businesses and product lines or to add new businesses and product lines. Any such future acquisitions that we may elect to pursue will be accompanied by the risks commonly encountered in such transactions. Such risks include, among others:

the difficulty of identifying appropriate acquisition candidates;

the difficulty of assimilating the operations and personnel of the acquired entities;

the potential disruption of our ongoing business;

the potential incurrence of new debt or the issuance of new equity that could increase our leverage or dilute our stockholders equity interests;

our inability to capitalize on the opportunities presented by acquisitions; and

our failure to implement and maintain uniform standards, controls, procedures and policies at any acquired businesses.

Further, to the extent that any such transaction may involve businesses located outside the United States, the transaction would involve the additional risks associated with international operations described above. We cannot assure you that we will be successful in overcoming these risks or any other problems encountered with any acquisitions we may pursue. Any failure to overcome these risks and successfully integrate acquired businesses could have a material adverse effect on our financial position, liquidity and results of operations. See We are subject to risks associated with operations in multiple countries.

**We may face significant challenges in integrating Seadrift's and C/G's respective business operations with our own.**

We may face significant challenges in integrating Seadrift's and C/G's respective business operations with our own in a timely and efficient manner. This may prove difficult because our businesses and products are highly complex, have been developed independently and were designed without regard to such integration. These challenges will include the following:

Although petroleum coke is the primary raw material in our manufacturing process, in the

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past we have purchased our requirements of petroleum coke from third parties and have no prior experience in its production. This will represent a new business for us and the effort to vertically integrate our supply chain may involve presently unforeseen costs and delays.

We expect to incur significant capital costs integrating Seadrift's and C/G's operations and products. These costs may include costs for (i) maintenance capital, (ii) capital necessary for quality improvements, and (iii) capital and other costs and expenditures related to facility stability necessary to achieve production plans.

Successful integration of Seadrift and C/G with our operations, products and personnel may place a significant burden on our management and our other internal resources. The diversion of management's attention and any difficulties encountered in the integration process may adversely affect our other businesses and results of operations.

Although we expect the acquisitions of Seadrift and C/G to result in financial and operational benefits, including increased cost savings and other benefits, there can be no assurance regarding when, or to what extent, the combined companies will be able to realize these financial and operational benefits.

We may need to integrate, or in some cases replace, numerous systems, including those involving management information, purchasing, accounting and finance, sales, billing, employee benefits, payroll and regulatory compliance, many of which are dissimilar.

If we cannot successfully meet these challenges, integrate our businesses and continue to provide customers with products and new product features in the future on a timely basis, we may lose customers and our business and operations may be harmed. Difficulties associated with integrating Seadrift and C/G and a failure to achieve anticipated financial and operational benefits could have a material adverse effect on the combined companies and the market price of our common stock.

### **Our results of operations could deteriorate if our manufacturing operations were substantially disrupted for an extended period.**

Our manufacturing operations are subject to disruption due to extreme weather conditions, floods, hurricanes and tropical storms and similar events, major industrial accidents, strikes and lockouts, adoption of new laws or regulations, changes in interpretations of existing laws or regulations or changes in governmental enforcement policies, civil disruption, riots, terrorist attacks, war, and other events. We cannot assure you that no such events will occur. If such an event occurs, it could have a material adverse effect on us.

### **We have significant non-dollar-denominated intercompany loans and have had in the past, and may in the future have, foreign currency financial instruments and interest rate swaps and caps. The related gains and losses have in the past been, and may in the future be, significant.**

As part of our cash management, we have non-dollar denominated intercompany loans between our subsidiaries. These loans are deemed to be temporary and, as a result, remeasurement gains and losses on these loans are recorded as currency gains / losses in other income (expense), net, on the Consolidated Statements of Income.

Additionally, we have in the past entered into, and may in the future enter into, interest rate swaps and caps to attempt to manage interest rate expense. We have also in the past entered into, and may in the future enter into, foreign currency financial instruments to attempt to hedge global currency exposures. We may purchase or sell these financial instruments, and open and close hedges or other positions, at any time. Changes in currency exchange rates or interest rates have in the past resulted, and may in the future result, in significant gains or losses with respect thereto. These instruments are marked-to-market monthly and gains and losses thereon are recorded in Other Comprehensive Income in the Consolidated Balance Sheets.

### **There may be volatility in our results of operations between quarters.**

Sales of our products fluctuate from quarter to quarter due to such factors as changes in economic



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conditions, changes in competitive conditions, scheduled plant shutdowns by customers, national vacation practices, changes in customer production schedules in response to seasonal changes in energy costs, weather conditions, strikes and work stoppages at customer plants and changes in customer order patterns including those in response to the announcement of price increases or price adjustments. We have experienced, and expect to continue to experience, volatility with respect to demand for and prices of our industrial material products, specifically graphite electrodes, both globally and regionally. We have also experienced volatility with respect to prices of raw materials and energy, and we expect to experience volatility in such prices in the future. Accordingly, results of operations for any quarter are not necessarily indicative of the results of operations for a full year.

**The graphite and carbon industry is highly competitive. Our market share, net sales or net income could decline due to vigorous price and other competition.**

Competition in the graphite and carbon products industry (other than, generally, with respect to new products) is based primarily on price, product differentiation and quality, delivery reliability, and customer service. Electrodes, in particular, are subject to rigorous price competition. In such a competitive market, changes in market conditions, including customer demand and technological development, could adversely affect our competitiveness, sales and/or profitability.

Competition with respect to new products is, and is expected to be, generally based primarily on product innovation, price, performance and cost effectiveness as well as customer service.

Competition could prevent implementation of price increases, require price reductions or require increased spending on research and development, marketing and sales that could adversely affect us.

**We have significant deferred income tax assets in multiple jurisdictions, and we may not be able to realize any benefits from those assets.**

At December 31, 2010 we had \$155.7 million of gross deferred income tax assets, of which \$80.8 million required a valuation allowance. In addition, we had \$142.7 million of gross deferred income tax liabilities. Our valuation allowance means that we do not believe that these assets are more likely than not to be realized. Until we determine that it is more likely than not that we will generate sufficient taxable income to realize our deferred income tax assets, income tax benefits in each current period will be fully reserved.

Our valuation allowance, which is predominantly in the U.S. tax jurisdiction, does not affect our ability and intent to utilize the deferred income tax assets as we generate sufficient future profitability. We are executing current strategies and developing future strategies, to improve sales, reduce costs and improve our capital structure in order to improve U.S. taxable income of the appropriate character to a level sufficient to fully realize these benefits in future years.

## **RISKS RELATING TO OUR SECURITIES**

**To the extent that outstanding options to purchase shares of our common stock are exercised or other equity awards are granted under our incentive plans, the ownership interests of our other stockholders will be diluted.**

Our stock price may be volatile due to the nature of our business as well as the nature of the securities markets, which could affect the value of an investment in our common stock. Companies that have experienced volatility in the market price of their stock have been the subject of securities class action litigation which involves substantial costs and a diversion of those companies' management's attention and resources. Many factors may cause the market price for our common stock to decline or fluctuate, perhaps substantially, including:

failure of net sales, results of operations or cash flows from operations to meet the expectations of securities analysts or investors;

recording of additional restructuring, impairment or other charges or costs;

downward revisions in revenue, earnings or cash flow estimates of securities analysts;

downward revisions or announcements that indicate possible downward revisions in the ratings on debt instruments that we may have outstanding from time to time, if any;

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speculation in the press or investor perception concerning our industry or our prospects; and

changes in general capital market conditions.

**FORWARD LOOKING STATEMENTS**

This Report contains forward looking statements. In addition, we or our representatives have made or may make forward looking statements on telephone or conference calls, by webcasts or emails, in person, in presentations or written materials, or otherwise. These include statements about such matters as: expected future or targeted operational and financial performance; growth rates and future production and sales of products that incorporate or that are produced using our products; changes in production capacity in our operations and our competitors' or customers' operations and the utilization rates of that capacity; growth rates for, future prices and sales of, and demand for our products and our customers' products; costs of materials and production, including anticipated increases or decreases therein, our ability to pass on any such increases in our product prices or surcharges thereon, or customer or market demand to reduce our prices due to such decreases; changes in customer order patterns due to changes in economic conditions; productivity, business process and operational initiatives, and their impact on us; our position in markets we serve; financing and refinancing activities; investments and acquisitions that we have made or may make in the future and the performance of the businesses underlying such acquisitions and investments; employment and contributions of key personnel; employee relations and collective bargaining agreements covering many of our operations; tax rates; capital expenditures and their impact on us; nature and timing of restructuring charges and payments; strategic plans and business projects; regional and global economic and industry market conditions, the timing and magnitude of changes in such conditions and the impact thereof; interest rate management activities; currency rate management activities; deleveraging activities; rationalization, restructuring, realignment, strategic alliance, raw material and supply chain, technology development and collaboration, investment, acquisition, venture, operational, tax, financial and capital projects; legal proceedings, contingencies, and environmental compliance including any regulatory initiatives with respect to greenhouse gas emissions which may be proposed; consulting projects; potential offerings, sales and other actions regarding debt or equity securities of us or our subsidiaries; and costs, working capital, revenues, business opportunities, debt levels, cash flows, cost savings and reductions, margins, earnings and growth. The words **will, may, plan, estimate, project, believe, anticipate, expect, intend, should, would, could, target, goal,** similar expressions, or the negatives thereof, identify some of these statements.

Our expectations and targets are not predictors of actual performance and historically our performance has deviated, often significantly, from our expectations and targets. Actual future events and circumstances (including future results and trends) could differ materially, positively or negatively, from those set forth in these statements due to various factors. These factors include:

the possibility that additions to capacity for producing EAF steel, increases in overall EAF steel production capacity, and increases or other changes in steel production may not occur or may not occur at the rates that we anticipate or may not be as geographically disbursed as we anticipate;

the possibility that increases or decreases in graphite electrode manufacturing capacity (including growth by producers in developing countries), competitive pressures (including changes in and the mix, distribution, and pricing of their products), reduction in specific consumption rates, increases or decreases in customer inventory levels, or other changes in the graphite electrode markets may occur, which may impact demand for, prices or unit and dollar volume sales of graphite electrodes and growth or profitability of our graphite electrodes business;

the possible failure of changes in EAF steel production or graphite electrode production to result in stable or increased, or offset decreases in, graphite electrode demand, prices, or sales volume;

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the possibility that a determination by the U.S. government that we have failed to comply with one or more export controls or trade sanctions to which we are subject with respect to products exported from the United States or otherwise subject to U.S. jurisdictions could result in civil or criminal penalties, including imposition of significant fines, denial or export privileges and loss of revenues from certain customers;

the possibility that, for all of our product lines, capital improvement and expansion in our customers' operations and increases in demand for their products may not occur or may not occur at the rates that we anticipate or the demand for their products may decline, which may affect their demand for the products we sell or supply to them;

the possibility that continued global consolidation of the world's largest steel producers could impact our business or industry;

the possibility that average graphite electrode revenue per metric ton in the future may be different than current spot or market prices due to changes in product mix, changes in currency exchange rates, changes in competitive market conditions or other factors;

the possibility that price increases, adjustments or surcharges may not be realized or that price decreases may occur;

the possibility that current challenging economic conditions and economic demand reduction may continue to impact our revenues and costs;

the possibility that decreases in prices for energy and raw materials may lead to downward pressure on prices for our products and delays in customer orders for our products as customers anticipate possible future lower prices;

the possibility that increases in prices for our raw materials and the magnitude of such increases, global events that influence energy pricing and availability, increases in our energy needs, or other developments may adversely impact or offset our productivity and cost containment initiatives;

the possibility that current economic disruptions may result in idling or permanent closing of blast furnace capacity or delay of blast furnace capacity additions or replacements which may affect demand and prices for our refractory products;

the possibility that economic, political and other risks with operating globally, including national and international conflicts, terrorist acts, political and economic instability, civil unrest, and natural calamities might interfere with our supply chains, customers or activities in a particular location;

the possibility that reductions in customers' production, increases in competitors' capacity, competitive pressures, or other changes in other markets we serve may occur, which may impact demand for, prices of or unit and dollar volume sales of, our other products, or growth or profitability of our other product lines, or change our position in such markets;

the possibility that we will not be able to hire and retain key personnel or to renew or extend our collective bargaining or similar agreements on reasonable terms as they expire or to do so without a work stoppage or strike, including at our Clarksburg, West Virginia facility where its primary collective bargaining agreement with the United Steelworkers ( USW ) has expired by its terms in June 2010. Our Clarksburg facility manufactures specialty graphite products. Our bargaining unit team members have continued to work without a contract. We continue to meet and negotiate in good faith with the USW. To date there has been no

disruption to our operations or ability to meet delivery targets as a result of the negotiations. While we have positive expectations that there will not be a work stoppage, there is the possibility of a work stoppage or other disruption in our Clarksburg operations. We

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have developed plans to address potential contingencies. However, there is the possibility that any work stoppage or disruption could adversely impact our specialties graphite business;

the potential unpredictability of litigation pending in Brazil involving disputes arising out of the interpretation of certain collectively bargained wage increase provisions applicable in 1989 and 1990 to employers (including our subsidiary in Brazil) in the Bahia region of Brazil. While the most recent ruling by the Supreme Court of Brazil has held that such provisions are not enforceable, and thus employers are not liable for the wage increases claimed on behalf of employees, further proceedings are pending seeking to reverse that ruling. While we cannot predict the outcome of the pending proceedings, if the wage increase provisions are declared enforceable, claims could be filed against our Brazilian subsidiary which could become substantial;

the possibility of delays in or failure to achieve successful development and commercialization of new or improved engineered solutions or that such solutions could be subsequently displaced by other products or technologies;

the possibility that we will fail to develop new customers or applications for our engineered solutions products;

the possibility that our manufacturing capabilities may not be sufficient or that we may experience delays in expanding or fail to expand our manufacturing capacity to meet demand for existing, new or improved products;

the possibility that the investments and acquisitions that we make or may make in the future may not be successfully integrated into our business or provide the performance or returns expected;

the possibility that challenging conditions or changes in the capital markets will limit our ability to obtain financing for growth and other initiatives, on acceptable terms or at all;

the possibility that conditions or changes in the global equity markets may have a material impact on our future pension funding obligations and liabilities on our balance sheet;

the possibility that the amount or timing of our anticipated capital expenditures may be limited by our financial resources or financing arrangements or that our ability to complete capital projects may not occur timely enough to adapt to changes in market conditions or changes in regulatory requirements;

the possibility that the actual outcome of uncertainties associated with assumptions and estimates using judgment when applying critical accounting policies and preparing financial statements may have a material impact on our results of operations or financial position;

the possibility that we may be unable to protect our intellectual property or may infringe the intellectual property rights of others, resulting in damages, limitations on our ability to produce or sell products or limitations on our ability to prevent others from using that intellectual property to produce or sell products;

the occurrence of unanticipated events or circumstances or changing interpretations and enforcement agendas relating to legal proceedings or compliance programs;

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the occurrence of unanticipated events or circumstances or changing interpretations and enforcement agendas relating to health, safety or environmental compliance or remediation obligations or liabilities to third parties or relating to labor relations;

the possibility that new or expanded regulatory initiatives with respect to greenhouse gas emissions, if implemented, could have an impact on our facilities, increase the capital intensive nature of our business, and add to our costs of production of our products;

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the possibility that our provision for income taxes and effective income tax rate or cash tax rate may fluctuate significantly due to changes in applicable tax rates or laws, changes in the sources of our income, changes in tax planning, new or changing interpretations of applicable regulations, or changes in profitability, estimates of future ability to use foreign tax credits, and other factors;

the possibility of changes in interest or currency exchange rates, in competitive conditions, or in inflation or deflation;

the possibility that our outlook could be significantly impacted by, among other things, changes in United States or other monetary or fiscal policies or regulations in response to the capital markets crisis and its impact on global economic conditions, developments in the Middle East, North Korea, and other areas of concern, the occurrence of further terrorist acts and developments (including increases in security, insurance, data back-up, energy and transportation and other costs, transportation delays and continuing or increased economic uncertainty and weakness) resulting from terrorist acts and the war on terrorism;

the possibility that our outlook could be significantly impacted by changes in demand as a result of the effect on customers of the volatility in global credit and equity markets;

the possibility that interruption in our major raw material, energy or utility supplies due to, among other things, natural disasters, process interruptions, actions by producers and capacity limitations, may adversely affect our ability to manufacture and supply our products or result in higher costs;

the possibility of interruptions in production at our facilities due to, among other things, critical equipment failure, which may adversely affect our ability to manufacture and supply our products or result in higher costs;

the possibility that we may not achieve the earnings or other financial or operational metrics that we provide as guidance from time to time;

the possibility that the anticipated benefits from organizational and work process redesign, changes in our information systems, or other system changes, including operating efficiencies, production cost savings and improved operational performance, including leveraging infrastructure for greater productivity and contributions to our continued growth, may be delayed or may not occur or may result in unanticipated disruption;

the possibility that our disclosure or internal controls may become inadequate because of changes in conditions or personnel, that the degree of compliance with our policies and procedures related to those controls may deteriorate or that those controls may not operate effectively and may not prevent or detect misstatements or errors;

the possibility that delays may occur in the financial statement closing process due to a change in our internal control environment or personnel;

the possibility of changes in performance that may affect financial covenant compliance or funds available for borrowing; and

other risks and uncertainties, including those described elsewhere in this Report or our other SEC filings, as well as future decisions by us.

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Occurrence of any of the events or circumstances described above could also have a material adverse effect on our business, financial condition, results of operations, cash flows or the market price of our common stock.

No assurance can be given that any future transaction about which forward looking statements may be made will be completed or as to the timing or terms of any such transaction.

All subsequent written and oral forward looking statements by or attributable to us or persons acting on our behalf are expressly qualified in their entirety by these factors. Except as otherwise required to be disclosed in periodic reports required to be filed by public companies with the SEC pursuant to the SEC's rules, we have no duty to update these statements.

### Item 1B. Unresolved Staff Comments

Not applicable.

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We currently operate the following facilities, which are owned or leased as indicated.

<b>Location of Facility</b>	<b>Primary Use</b>	<b>Owned or Leased</b>
<i>U.S.</i>		
Parma, Ohio	Corporate Headquarters, Technology Center, Testing Facility, Pilot Plant, Advanced Flexible Graphite Manufacturing Facility and Sales Office	Owned
Lakewood, Ohio	Flexible Graphite Manufacturing Facility and Sales Office	Owned
Columbia, Tennessee	Advanced Graphite Materials and Refractory Products Manufacturing, Warehousing Facility and Sales Office	Owned
Lawrenceburg, Tennessee	Refractory Products Manufacturing Facility	Owned
Clarksburg, West Virginia	Advanced Graphite Materials Manufacturing Facility and Sales Office	Owned
St. Marys, Pennsylvania	Graphite Electrode Manufacturing Facility	Owned
Port Lavaca, Texas	Needle Coke Manufacturing Facility	Owned
<i>Europe</i>		
Calais, France	Graphite Electrode Manufacturing Facility	Owned
Notre Dame, France	Advanced Graphite Materials Machine Shop and Sales Office	Owned
Malonno, Italy	Advanced Graphite Materials Manufacturing and Machine Shop and Sales Office	Owned
Moscow, Russia	Sales Office	Leased
Vyazma, Russia	Graphite Electrode Materials Machine Shop	Leased
Pamplona, Spain	Graphite Electrode Manufacturing Facility and Sales Office	Owned
Bussigny, Switzerland	Sales Office	Leased
<i>Other International</i>		
Salvador Bahia, Brazil	Graphite Electrode and Advanced Graphite Materials Manufacturing Facility	Owned
Sao Paulo, Brazil	Sales Office	Leased
Beijing, China	Sales Office	Leased
Hong Kong, China	Sales Office	Leased
Shanghai, China	Sales Office	Leased
Monterrey, Mexico	Graphite Electrode Manufacturing Facility and Sales Office	Owned
Meyerton, South Africa	Graphite Electrode and Advanced Graphite Materials Manufacturing Facility and Sales Office	Owned

We believe that our facilities, which are of varying ages and types of construction, are in good condition, are suitable for our operations and generally provide sufficient capacity to meet our requirements for the foreseeable future.

**Item 3. Legal Proceedings**

The information required by Item 3 is set forth in Note 14, *Contingencies* of the Notes to the Consolidated Financial Statements and is incorporated herein by reference.

**Item 4. [Removed and Reserved]**



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## PART II

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

**MARKET INFORMATION**

Our common stock is listed on the NYSE under the trading symbol GTI. Our common stock is included in the Russell 2000 Index. The closing sale price of our common stock was \$19.84 on December 31, 2010, the last trading day of our most recent fiscal year. The following table sets forth, for the periods indicated, the high and low closing sales price per share for our common stock as reported by the NYSE.

	<b>High</b>	<b>Low</b>
2009		
First Quarter	\$ 9.83	\$ 5.00
Second Quarter	12.79	6.46
Third Quarter	15.87	10.12
Fourth Quarter	16.58	12.67
2010		
First Quarter	\$ 16.34	\$ 11.88
Second Quarter	17.26	13.43
Third Quarter	17.10	14.06
Fourth Quarter	20.75	15.50

At January 31, 2011, there were 133 stockholders of record and, we estimate, 33,114 beneficial owners.

**DIVIDEND POLICIES AND RESTRICTIONS**

It is the current policy of our Board of Directors to retain earnings to finance strategic and other plans and programs, conduct business operations, fund acquisitions, meet obligations and repay debt. Any declaration and payment of cash dividends or repurchases of common stock will be subject to the discretion of our Board of Directors and will be dependent upon our financial condition, results of operations, cash requirements and future prospects, the limitations contained in the Revolving Facility and other factors deemed relevant by our Board of Directors. We did not pay any cash dividends in 2009 or 2010. We periodically review our dividend policy. At the present time, there are no plans for paying cash dividends in the near future.

In December 2007, our Board of Directors approved a share repurchase program authorizing the purchase of up to 3 million shares of our common stock. Share repurchases may take place from time to time in the open market, or through privately negotiated transactions, as market conditions warrant. We have in the past funded and intend in the future to fund, any such share repurchases from available cash and cash flows. These share repurchases may be suspended or discontinued at any time. During 2008, we purchased 948,095 shares under this program. During 2009 and 2010 we did not purchase any shares under this program. The maximum number of shares that may yet be purchased under the program was 2,051,905 at December 31, 2010.

In addition to the above repurchase program, we occasionally purchase or withhold shares from employee equity awards to cover withholding taxes.

GTI is a holding company that derives substantially all of its cash flow from issuances of its securities and cash flows of its subsidiaries. Accordingly, GTI's ability to pay dividends or repurchase common stock from cash flow from sources other than issuance of its securities is dependent upon the cash flows of its subsidiaries and the advance or distribution of those cash flows to GTI.

Under the Revolving Facility, in general, GTI is permitted to pay dividends and repurchase common stock in an aggregate amount (cumulative from April 2010) equal up to \$75 million (or \$300 million, if certain leverage ratio requirements are satisfied), plus, each year, an aggregate amount equal to 50% of the consolidated net income in the prior year.



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**Performance Graph**

The following graph compares the 5-year total return provided to shareholders of our common stock to the cumulative total return of the Dow Jones Industrial Average and the Russell 2000 Index. An investment of \$100 is assumed to have been made in our common stock and in each of the indexes on December 31, 2005 and its relative performance is tracked through December 31, 2010.

**Table of Contents****Item 6. Selected Financial Data**

Information in Items 6, 7, and 8 for the years ended December 31, 2006, 2007, 2008, 2009, and 2010 has been revised, as applicable, for the retrospective application of our change in accounting policy for recognizing pension and other postemployment benefit plans expense. See Note 1, Change in Accounting Policy Regarding Pension and Other Postretirement Benefits of the Notes to Consolidated Financial Statements for a discussion of the change and the impacts for the years ended December 31, 2008, 2009, and 2010.

The data set forth below should be read in conjunction with Part I. Preliminary Notes-Important Terms, Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations and the Consolidated Financial Statements and Notes thereto.

	<b>Year Ended December 31,</b>				
	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
	(1)	(1)	(1)	(1)	(1)
	<i>(Dollars in thousands)</i>				
<b>Statement of Operations Data:</b>					
Net sales	\$ 855,433	\$ 1,004,818	\$ 1,190,238	\$ 659,044	\$ 1,006,993
Income from continuing operations (a)	27,697	162,220	184,157	15,708	174,660
Basic earnings per common share:					
Income from continuing operations	\$ 0.28	\$ 1.61	\$ 1.65	\$ 0.13	\$ 1.42
Income (loss) from discontinued operations (b)	0.50	(0.02)			
Net income	\$ 0.78	\$ 1.59	\$ 1.65	\$ 0.13	\$ 1.42
Weighted average common shares outstanding <i>(in thousands)</i>	97,965	100,468	111,447	119,707	122,621
Diluted earnings per common share:					
Income from continuing operations	\$ 0.28	\$ 1.50	\$ 1.60	\$ 0.13	\$ 1.41
Income (loss) from discontinued operations (b)	0.50	(0.02)			
Net income	\$ 0.78	\$ 1.48	\$ 1.60	\$ 0.13	\$ 1.41
Weighted average common shares outstanding <i>(in thousands)</i>	98,582	116,343	119,039	120,733	123,453
<b>Balance sheet data (at period end):</b>					
Total assets	\$ 918,040	\$ 875,878	\$ 943,129	\$ 892,608	\$ 1,913,183
Other long-term obligations (c)	103,408	94,010	118,272	108,267	114,728
Total long-term debt	631,108	399,586	50,557	1,467	275,799
<b>Other financial data:</b>					
Net cash provided by operating activities	\$ 64,181	\$ 130,772	\$ 248,636	\$ 170,329	\$ 144,922
Net cash provided by (used in) investing activities	118,538	(26,525)	(209,858)	(60,110)	(321,552)
Net cash (used in) provided by financing activities	(39,568)	(199,726)	(80,215)	(72,875)	138,240

(1) The impacts of the adjustments resulting from the retrospective application of our change in accounting policy for recognizing pension and other postemployment benefits plans expense are summarized below (dollars in thousands, except per share):

**Statement of Operations Data**

	<b>Previously Reported</b>	<b>Revised</b>	<b>Effect of Change</b>
<b>Year Ended December 31, 2010</b>			
Income from continuing operations	\$ 175,068	\$ 174,660	(\$ 408)
Basic earnings per common share:			
Income from continuing operations	1.43	1.42	(0.01)

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Net income	1.43	1.42	(0.01)
Diluted earnings per common share:			
Income from continuing operations	1.42	1.41	(0.01)
Net income	1.42	1.41	(0.01)
<b>Year Ended December 31, 2009</b>			
Income from continuing operations	12,550	15,708	3,158
Basic earnings per common share:			
Income from continuing operations	0.10	0.13	0.03
Net income	0.10	0.13	0.03
Diluted earnings per common share:			
Income from continuing operations	0.10	0.13	0.03
Net income	0.10	0.13	0.03
<b>Year Ended December 31, 2008</b>			
Income from continuing operations	200,515	184,157	(16,358)
Basic earnings per common share:			
Income from continuing operations	1.80	1.65	(0.15)
Net income	1.80	1.65	(0.15)
Diluted earnings per common share:			
Income from continuing operations	1.74	1.60	(0.14)
Net income	1.74	1.60	(0.14)
<b>Year Ended December 31, 2007</b>			
Income from continuing operations	148,673	162,220	13,547
Basic earnings per common share:			
Income from continuing operations	1.48	1.61	0.13
Net income	1.46	1.59	0.13
Diluted earnings per common share:			
Income from continuing operations	1.39	1.50	0.11
Net income	1.37	1.48	0.11
<b>Year Ended December 31, 2006</b>			
Income from continuing operations	35,437	27,697	(7,740)
Basic earnings per common share:			
Income from continuing operations	0.36	0.28	(0.08)
Net income	0.86	0.78	(0.08)
Diluted earnings per common share:			
Income from continuing operations	0.36	0.28	(0.08)
Net income	0.86	0.78	(0.08)
(a) Income from continuing operations by period includes For the Year Ended December 31, 2006:			

a \$10.0 million restructuring expense associated with the rationalization of our graphite electrode facilities, including those in France and the United States,

a \$1.8 million expense associated with the closure of our graphite electrodes manufacturing operations in Caserta, Italy,

a \$1.4 million expense associated with the relocation of our corporate headquarters from Wilmington, Delaware to Parma, Ohio,

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a \$2.7 million expense for severance and other costs related to the shutdown of our carbon electrode production operations in Columbia, Tennessee,

a \$6.6 million impairment for the abandonment of capitalized costs related to our enterprise resource planning system, caused by indefinite delays in the implementation of remaining facilities,

a \$1.4 million impairment for the write-down of long-lived assets in our former Etoy, Switzerland facility, as the estimated fair value less selling costs exceeded book value,

a \$0.8 million loss for the abandonment of certain long-lived assets associated with the accelerated closing of our carbon electrode facility in Columbia, Tennessee,

a \$1.7 million loss for the abandonment of certain fixed assets related to our graphite electrode operations,

a \$2.5 million expense for the settlement of three foreign customer lawsuits associated with anti-trust lawsuits and related items,

a \$23.3 million expense for our incentive compensation program,

a \$18.7 million loss for MTM Adjustment for our pension and OPEB benefit plans.

For the Year Ended December 31, 2007:

a \$1.4 million expense for restructuring, pertaining primarily to a \$0.7 million expense associated with the phase out of our graphite electrode machining and warehousing operations in Clarksville, Tennessee and a \$0.5 million expense associated with changes in estimates of the timing and amounts of severance and related payments to certain employees in Caserta, Italy,

a \$23.5 million expense for our incentive compensation program,

a \$23.7 million gain from the sale of our Caserta, Italy facility,

a \$1.3 million gain from the sale of our Vyazma, Russia facility,

a \$13.0 million loss on extinguishment on the repurchase of Senior Notes,

a \$2.3 million (\$0.7 million, net of tax) discontinued operations gain for purchase price adjustments related to our cathodes sale that occurred in December 2006,

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a \$1.5 million overstatement of income tax expense from continuing operations related to the correction of our invalid check the box tax election made for our Swiss entity in 2004,

a \$4.4 million expense for the settlement of our pension obligations in South Africa,

a \$3.5 million gain for the MTM Adjustment for our pension and OPEB benefit plans.

For the Year Ended December 31, 2008:

a \$6.8 million loss on extinguishment on the repurchase of Senior Notes,

a \$4.1 million gain on derecognition of the Debentures,

a \$9.0 million expense for the Make-Whole provision in connection with the derecognition of the Debentures,

a \$22.1 million expense for our incentive compensation program,

a \$2.8 million benefit to our income tax provision for tax holidays, exemptions, and credits in various jurisdictions,

a \$34.5 million write down of our investment in a non-consolidated affiliate and our \$1.7 million share of its losses,

a \$32.2 million loss for the MTM Adjustment for our pension and OPEB benefit plans.

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For the Year Ended December 31, 2009:

a \$52.8 million write down of our investment in a non-consolidated affiliate and our \$2.7 million share of its losses

a \$4.3 million gain for the derecognition of our liability for Brazil excise tax,

a \$1.0 million gain from the sale of our Caserta, Italy facility,

a \$0.4 million loss on extinguishment on the repurchase of the remaining Senior Notes outstanding,

a \$5.1 million benefit to our income tax provision for tax holidays, exemptions, and credits in various jurisdictions,

a \$22.8 million valuation allowance expense for deferred tax assets that might not be realized,

a \$1.7 million loss for the MTM Adjustment for our pension and OPEB benefit plans.

For the Year Ended December 31, 2010 (Seadrift and C/G are included in our Consolidated Financial Statements beginning as of December 1, 2010):

a \$15.2 million expense for Seadrift and C/G acquisition-related costs,

a \$4.9 million benefit from the equity in earnings of our then non-consolidated affiliate,

a \$9.6 million gain from the acquisition of the remaining 81.1% equity interest in our previously non-consolidated affiliate,

a \$16.8 million expense for our incentive compensation program,

a \$4.8 million benefit to our income tax provision for tax holidays, exemptions, and credits in various jurisdictions,

a \$30.3 million deferred tax asset valuation allowance release as a result of the 2010 acquisitions,

a \$7.4 million loss for the MTM Adjustment for our pension and OPEB benefit plans.

(b) Income (loss) from discontinued operations is comprised of the cathode business which we sold in December 2006.

- (c) Represents liabilities in connection with completed antitrust investigations and related lawsuits and claims (2006), pension and post-retirement benefits and related costs and miscellaneous other long-term obligations.

**Table of Contents****Quarterly Data:**

The following quarterly selected consolidated financial data have been derived from the Consolidated Financial Statements for the periods indicated which have not been audited. The selected quarterly consolidated financial data set forth below should be read in conjunction with Part I. Preliminary Notes Presentation of Financial, Market and Legal Data, Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations and the Consolidated Financial Statements and Notes thereto.

	<b>First Quarter (1)</b>	<b>Second Quarter (2)</b>	<b>Third Quarter (3)</b>	<b>Fourth Quarter (4)</b>
	<b>(Dollars in thousands, except per share data)</b>			
<b>2010 (a)</b>				
Net sales	\$ 215,664	\$ 254,854	\$ 255,236	\$ 281,239
Gross profit	69,294	75,918	76,223	67,816
Net income (b)	34,953	40,747	26,037	72,923
Basic earnings per common share	\$ 0.29	\$ 0.34	\$ 0.22	\$ 0.57
Diluted earnings per common share	\$ 0.29	\$ 0.34	\$ 0.21	\$ 0.56

	<b>First Quarter (5)</b>	<b>Second Quarter (6)</b>	<b>Third Quarter (7)</b>	<b>Fourth Quarter (8)</b>
	<b>(Dollars in thousands, except per share data)</b>			
<b>2009 (a)</b>				
Net sales	\$ 134,026	\$ 157,774	\$ 164,879	\$ 202,365
Gross profit	32,780	46,342	47,187	63,338
Net income (loss) (c)	9,099	(36,461)	7,494	35,576
Basic earnings (loss) per common share	\$ 0.08	\$ (0.30)	\$ 0.06	\$ 0.30
Diluted earnings (loss) per common share	\$ 0.08	\$ (0.30)	\$ 0.06	\$ 0.29

(a) As revised for the change in our method of recognizing pension and other postemployment benefit plans expense. See Note 1 of the Notes to Consolidated Financial Statements for a discussion of the change and the impacts of the change for the years ended December 31, 2009 and 2010.

- (1) For the quarter ended March 31, 2010 our retrospective change in recognizing pension and other postemployment benefit plans expense increased Gross profit by \$1.2 million, Net income by \$1.4 million, Basic earnings per common share by \$0.01 and Diluted earnings per common share by \$0.01.
- (2) For the quarter ended June 30, 2010 our retrospective change in recognizing pension and other postemployment benefit plans expense increased Gross profit by \$1.2 million, Net income by \$1.4 million, Basic earnings per common share by \$0.01 and Diluted earnings per common share by \$0.02.
- (3) For the quarter ended September 30, 2010 our retrospective change in recognizing pension and other postemployment benefit plans expense increased Gross profit by \$1.2 million, Net income by \$1.4 million, Basic earnings per common share by \$0.02 and Diluted earnings per common share by \$0.01.
- (4) For the quarter ended December 31, 2010 our retrospective change in recognizing pension and other postemployment benefit plans expense decreased Gross profit by \$3.7 million, Net income by \$4.7 million, Basic earnings per common share by \$0.03 and Diluted earnings per common share by \$0.04.

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- (5) For the quarter ended March 31, 2009 our retrospective change in recognizing pension and other postemployment benefit plans expense increased Gross profit by \$0.1 million, Net income (loss) by \$0.1 million, Basic earnings (loss) per common share by \$0.01 and Diluted earnings (loss) per common share by \$0.01.
- (6) For the quarter ended June 30, 2009 our retrospective change in recognizing pension and other postemployment benefit plans expense increased Gross profit by \$0.1 million, Net income (loss) by \$0.1 million, Basic (loss) per common share by \$0.01 and Diluted (loss) per common share by \$0.01.
- (7) For the quarter ended September 30, 2009 our retrospective change in recognizing pension and other postemployment benefit plans expense increased Gross profit by \$0.1 million and Net income (loss) by \$0.1 million.
- (8) For the quarter ended December 31, 2009 our retrospective change in recognizing pension and other postemployment benefit plans expense decreased Gross profit by \$3.4 million, increased Net income (loss) by \$1.3 million, and increased Basic earnings (loss) per common share by \$0.01 and Diluted earnings (loss) per common share by \$0.01.

(b) Net income by quarter for 2010 includes the following:

A loss of \$0.8 million from the equity in losses of our then non-consolidated affiliate, Seadrift, in the first quarter,

Income of \$3.7 million for currency gains due to the remeasurement of intercompany loans in the first quarter,

A \$6.6 million expense for Seadrift and C/G acquisition-related costs in the second quarter,

Income of \$1.7 million from the equity in earnings of our then non-consolidated affiliate, Seadrift, in the second quarter,

Income of \$9.0 million for currency gains due to the remeasurement of intercompany loans and the effect of transaction gains and losses on intercompany activities in the second quarter,

A \$5.7 million expense for Seadrift and C/G acquisition-related costs in the third quarter,

Income of \$1.4 million from the equity in earnings of our then non-consolidated affiliate, Seadrift, in the third quarter,

A loss of \$9.7 million for currency gains due to the remeasurement of intercompany loans and the effect of transaction gains and losses on intercompany activities in the third quarter,

A \$2.9 million expense for Seadrift and C/G acquisition-related costs in the fourth quarter,

Income of \$3.2 million for currency gains due to the remeasurement of intercompany loans and the effect of transaction gains and losses on intercompany activities in the fourth quarter, and

A \$30.3 million benefit related to deferred tax asset valuation allowance release as a result of the acquisitions in the fourth quarter.

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Income of \$2.6 million from the equity in earnings of investment of our then non-consolidated affiliate, Seadrift, in the fourth quarter,

Income of \$9.6 million relating to the gain recorded after the acquisition of the remaining 81.1% equity interest in our previously non-consolidated affiliate in the fourth quarter; and

A loss of \$7.4 million for the MTM Adjustment for our pension and OPEB benefit plans in the fourth quarter

(c) Net income (loss) by quarter for 2009 includes the following:

A \$52.8 million write down of our investment in a non-consolidated affiliate in the second quarter,

A credit of \$0.8 million for the reduction of our liability for Brazilian excise taxes in the third quarter,

A gain of \$3.5 million for the derecognition of our liability for Brazilian excise taxes in the fourth quarter,

An expense of \$0.6 million related to the early termination of our information technology outsourcing services agreement in the fourth quarter,

A U.S. income tax expense of \$4.1 million resulting from the currency gain realized on the repayment of intercompany loans in the fourth quarter; and

A loss of \$1.7 million for the MTM Adjustment for our pension and OPEB benefit plans in the fourth quarter.

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

**GENERAL**

Management's Discussion and Analysis of Financial Condition and Results of Operations ( MD&A ) is designed to provide information that is supplemental to, and should be read together with, our Consolidated Financial Statements and the accompanying notes. Information in this Item is intended to assist the reader in obtaining an understanding of our Consolidated Financial Statements, the changes in certain key items in those financial statements from year-to-year, the primary factors that accounted for those changes, any known trends or uncertainties that we are aware of that may have a material effect on our future performance, as well as how certain accounting principles affect our Consolidated Financial Statements. In addition, this Item provides information about our business segments and how the results of those segments impact our financial condition and results of operation as a whole.

**EXECUTIVE SUMMARY**

On November 30, 2010, we announced the acquisitions of Seadrift and C/G. As a result of these acquisitions, our results of operations and MD&A analysis for 2010 include one month of activity of Seadrift and C/G.

We have five major product categories: graphite electrodes, refractory products, needle coke products, advanced graphite materials, and natural graphite products.

**Reportable Segments.** Our businesses are reported in the following categories:

Industrial materials, which consists of graphite electrodes, refractory products and needle coke products.

Engineered Solutions, which includes advanced graphite materials and natural graphite products.

Reference is made to the information under Part I for background information on our businesses, industry and related matters.

**GLOBAL ECONOMIC CONDITIONS AND OUTLOOK**

We are impacted in varying degrees, both positively and negatively, as global, regional or country conditions fluctuate. Our discussions about market data and global economic conditions below are based on or derived from published industry accounts and statistics.

**2011 Outlook.** Based on current International Monetary Fund (IMF) projections and other global economic forecasts, world output is projected to expand an average of 4.5 percent in 2011. However, degrees of growth will vary in both advanced and emerging economies. IMF notes that advanced economies are expected to continue to grow at a subdued pace, while emerging economies are anticipated to advance at a more rapid pace given robust internal demand and strong capital inflows. However, downside risks remain to the stability of the global recovery.

According to the World Steel Association's published reports, global steel operating rates were roughly flat in the fourth quarter of 2010 at 75 percent capacity utilization, as compared to the third quarter of 2010. For the full year 2010, global steel operating rates were 77 percent given stronger first half production levels relative to the second half of 2010. Total steel production levels are expected to improve in 2011; however, operating rates in the primary markets we serve are anticipated to remain below pre-crisis levels.

We expect 2011 results to benefit from improved volumes in our graphite electrode business; however, this impact will be partially offset due to pressure on average graphite electrode selling prices.

For the full year 2011, we are targeting cash flow from operations to be in the range of \$185 million to \$215 million, an improvement of approximately 40 percent. On the capital front, we are targeting expenditures of approximately \$135 million to \$150 million in 2011, as we fund internal Engineered Solutions growth initiatives, support Seadrift's and St. Marys' quality improvement plans and improve operational efficiency across our global platform. We are targeting 2011 overhead expense to be in the range of \$145 million to \$155 million. The year-over-year increase largely relates to \$17 million amortization of acquisition related intangibles and \$10



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million higher administrative expense due to the inclusion of the Seadrift and St. Marys teams.

We are targeting interest expense in the range of \$18 million to \$20 million, depreciation and amortization expense of approximately \$85 million, an effective tax rate in the range of 22 percent to 24 percent and a fully dilute share count of approximate 146 million shares.

Our outlook could be significantly impacted by, among other things, factors described under [Item 1A Risk Factors](#) and [Item 1A Forward Looking Statements](#) in this Report.

## **FINANCING TRANSACTIONS**

On April 28, 2010, we successfully completed the refinancing of our principal revolving credit facility ( [Revolving Facility](#) ) that was due to expire on July 15, 2010. Borrowers under the Revolving Facility are GrafTech Finance Inc. ( [GrafTech Finance](#) ) and GrafTech Switzerland S.A. ( [Swissco](#) ), both wholly-owned subsidiaries.

As amended and restated, the credit agreement provides for, among other things, an extension until April 29, 2013 of the maturity of our Revolving Facility in the initial amount of \$260 million, additional flexibility for investments and acquisitions and, subject to certain conditions, an accordion feature that permits GrafTech Finance and Swissco to establish additional credit facilities thereunder in an aggregate amount, together with our Revolving Facility, of up to \$390 million.

We can have outstanding letters of credit of up to \$35 million under the Revolving Facility. At December 31, 2010, we had outstanding borrowings of \$130.0 million and outstanding letters of credit of \$3.4 million under this Revolving Facility.

On November 30, 2010, in connection with the Acquisitions, we issued two Senior Subordinated Notes for an aggregate total face amount of \$200 million. These Senior Subordinated Notes are non-interest bearing and mature in 2015, see Note 2 [Acquisitions](#) . Because the promissory notes are non-interest bearing, we were required to record them at their present value (determined using an interest rate of 7%). The difference between the face amount of the promissory notes and their present value is recorded as debt discount. The debt discount will be amortized to income using the interest method, over the life of the promissory notes. The loan balance, net of unamortized discount, was \$143.4 million at December 31, 2010.

On September 30, 2009, we redeemed all of the remaining outstanding Senior Notes, \$19.9 million, at 101.708% plus accrued interest. Total cash paid to redeem the balance of the Senior Notes approximated \$20.2 million.

During 2008, we entered into a supply chain financing arrangement, as discussed in more detail under [Liquidity and Capital Resources](#), below. Our purchases of inventory under this arrangement were \$37.1 million in 2009 and \$186.7 million in 2010.

On occasion we sell accounts receivable without recourse to a third party. During 2009 we sold \$32.1 million of receivables. We did not sell any receivables during 2010. See [Liquidity and Capital Resources](#) below for further discussion.

## **PROCEEDINGS AGAINST US**

We are involved in various investigations, lawsuits, claims, demands, environmental compliance programs, labor disputes and other legal proceedings arising out of or incidental to the conduct of our business. While it is not possible to determine the ultimate disposition of each of these matters and proceedings, we do not believe that their ultimate disposition will have a material adverse effect on our financial position, results of operations or cash flows.

There is litigation pending in Brazil involving disputes arising out of the interpretation of certain collectively bargained wage increase provisions applicable in 1989 and 1990 to employers (including our subsidiary in Brazil) in the Bahia region of Brazil. We are not currently party to any of the litigation involving the interpretation of the wage increase provisions at issue; however, litigation is pending against other employers in the region and we have learned that several companies in Brazil have recently settled claims arising out of these provisions. While the most recent ruling on the subject by the Supreme Court of Brazil has held that such provisions are not enforceable, and thus employers are not liable for the wage increases claimed on behalf of employees, further proceedings are pending seeking to reverse that ruling and there have been changes in the composition of the Supreme Court in the interim. While we cannot predict the outcome of the pending proceedings, if the Supreme Court reverses its prior decision



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and declares the wage increase provisions enforceable, claims could be filed against our Brazilian subsidiary which could become substantial.

### **REALIZABILITY OF NET DEFERRED TAX ASSETS AND VALUATION ALLOWANCES**

At December 31, 2010 we had \$155.7 million of gross deferred income tax assets, of which \$74.9 million required a valuation allowance. In addition, we had \$142.7 million of gross deferred income tax liabilities. Our valuation allowance means that we do not believe that these assets are more likely than not to be realized. Until we determine that it is more likely than not that we will generate sufficient taxable income to realize our deferred income tax assets, income tax benefits in each current period will be fully reserved.

Our valuation allowance, which is predominately in the U.S. tax jurisdiction, does not affect our ability and intent to utilize the deferred income tax assets as we generate sufficient future profitability. We are executing current strategies and developing future strategies, to improve sales, reduce costs and improve our capital structure in order to improve U.S. taxable income of the appropriate character to a level sufficient to fully realize these benefits in future years.

### **CUSTOMER BASE**

We are a global company and sell our products in every major geographic market. Sales of these products to buyers outside the U.S. accounted for about 83% of net sales in 2008, 82% in 2009, and 80% in 2010. In 2010, four of our ten largest customers were based in Europe, two in the United States, two in South America, one in India and one in China.

In 2010, nine of our ten largest customers were purchasers of our Industrial Materials products. No single customer or group of affiliated customers accounted for more than 10% of our net sales in 2010.

### **RESULTS OF OPERATIONS AND SEGMENT REVIEW**

**2010.** For most of 2010, companies across the world demonstrated, to varying degrees, a gradual recovery from the reduced production levels experienced during the 2009 global economic downturn. In 2010 we achieved our second highest net sales in our Engineered Solutions segment in our Company's history as demand for our products increased. The graphite electrode restocking initiative, which began in the second half of 2009 continued throughout much of the year in our Industrial Materials segment. Further, EAF capacity utilization rates increased in 2010.

On November 30, 2010, we consummated the acquisitions of Seadrift, a needle coke supplier, and C/G, a producer of graphite electrodes and related products, pursuant to the April 28, 2010 agreements and plans of merger, as described further in Note 2, Acquisitions of the Notes to the Consolidated Financial Statements. The consideration paid to the former owners of Seadrift and C/G aggregated \$936.7 million and consisted of cash, shares of our common stock and two Senior Subordinated Notes. These businesses are now incorporated into our existing Industrial Materials segment. With the acquisition of Seadrift we have added another major product category, needle coke products, to the Industrial Materials segment. The analysis below includes the results of operations for Seadrift and C/G for the month of December 2010.

Pursuant to the Seadrift Merger, we acquired from the equity holders of Seadrift the 81.1% of the equity interests in Seadrift that we did not already own. Seadrift is one of the world's largest manufacturers of petroleum-based needle coke and owns the world's only known stand-alone petroleum-based needle coke plant, located in Port Lavaca, Texas. In addition to calcined needle coke, the plant produces naphtha, gas oil and electricity as by-products.

For further discussion on the acquisitions see Note 2, Acquisitions of the Notes to the Consolidated Financial Statements.

**2009.** For most of 2009 companies across the world experienced the deepest global downturn in recent history. We weathered the 2009 economic recession despite declines in shipments in both our Industrial Materials and Engineered Solutions segments. We remained profitable by adjusting our production to meet customer orders and aggressively controlling costs. We used existing supplies of raw materials which allowed us to conserve cash and reduce our debt.

In September 2009 signs of a slow recovery in the steel industry began to emerge. Government stimulus programs around the world resulted in modest growth in

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several economies resulting in our customers replenishing inventories in order to meet slightly higher utilization rates for steel production. In the second half of 2009 customers restocked their depleted inventories of graphite electrodes in order to meet increasing demand.

The World Steel Association estimates that worldwide steel production was about 1.2 billion metric tons in 2009, an 8.1% decrease compared to 2008. China, which accounted for 47% of the total, increased 21.5% compared to 2008. Non Chinese steel production rose from an average of about 45 million tons per month in the first few months of 2009 to about 60 million tons per month by the end of 2009. While production levels rose in the last half of 2009 compared to the first half, they did not reach the levels of the first half of 2008.

We believe that the worldwide total graphite electrode manufacturing capacity for 2009 was 1.57 million metric tons and that the graphite electrode industry manufacturing capacity utilization rate worldwide was approximately 50% for 2009.

Demand for our engineered solutions products decreased in 2009 as a result of the global recession. We experienced lower sales volume across multiple product lines. We expect our Engineered Solutions segment to begin to recover in the second half of 2010.

**2008.** Global and regional economic conditions remained relatively stable in the first half of 2008. In September 2008 it became apparent that the global economy was entering into difficult times due to the financial industry crisis. Credit markets became frozen, liquidity diminished, business activity slowed at an extreme pace leading the global economy into its worst crisis in 60 years.

Due to the negative global economic situation and falling steel demand from key steel end markets (automotive, construction, and appliances), a significant number of global steel producers reduced their operating rates in the fourth quarter. We believe that in the graphite electrode markets in which we compete, the capacity utilization rate was over 95% for the first nine months of 2008. Due to the financial crisis and the global economic slowdown, however, operating rates fell dramatically in the fourth quarter of 2008 to an average of 70% and were estimated to be approximately 45% at year end 2008.

The World Steel Association estimated that worldwide steel production was about 1.3 billion metric tons in 2008, about a 1.6% decrease as compared to 2007. China's steel production grew at a much lower rate than in recent years due to a slowdown in economic growth and falling steel demand. In 2008, China's steel production grew by about 1.5%, a significant decline compared to China's recent double-digit annual growth rates. Steel production in the rest of the world declined by 3.5% in 2008.

The percent of EAF to total steel production remained at approximately 31% in 2008. EAF steel production was estimated to have been 405 million metric tons in 2008, about a 2% decrease compared to 2007. For the first nine months of the year, EAF production grew by over 3%, but EAF experienced a decline of 18% in the fourth quarter. China's EAF steel production increased 2% compared to the prior year. The rest of the world's EAF production declined by 3%, as a result of lower operating rates in the fourth quarter.

Demand for our engineered solutions segment increased in 2008 as compared to 2007. The increases were mainly in the energy related markets, including solar, oil and gas exploration, transportation industries, and ETM markets.

The tables presented in our year-over-year comparisons summarize our consolidated statements of income and illustrate key financial indicators used to assess the consolidated financial results. Financial information is presented for the years ended December 31, 2008, 2009, and 2010. Throughout our MD&A, percentage changes that are both less than 5% and less than \$1.0 million, are deemed to be not meaningful and are designated as NM.

**Table of Contents****Results of Operations for 2010 as Compared to 2009**

(in thousands, except per share data and % change)

	<b>2009</b>	<b>2010</b>	<b>Increase (Decrease)</b>	<b>% Change</b>
Net sales	\$ 659,044	\$ 1,006,993	\$ 347,949	53
Cost of sales	469,397	717,742	248,345	53
Gross profit	189,647	289,251	99,604	53
Research and development	9,390	12,202	2,812	30
Selling and administrative expenses	79,929	119,009	39,080	49
Operating income	100,328	158,040	57,712	58
Equity in losses (earnings) of, write-down of investment in and gain recorded on non-consolidated affiliate	55,488	(14,500)	(69,988)	(126)
Other expense (income), net	1,868	(4,768)	(6,636)	(355)
Interest expense	5,609	5,076	(533)	NM
Interest income	(1,047)	(1,333)	286	NM
Income before provision for income taxes	38,410	173,565	135,155	352
Provision (benefit) for income taxes	22,702	(1,095)	(23,797)	(105)
Net income	\$ 15,708	\$ 174,660	\$ 158,952	1,012
Basic income per common share	\$ 0.13	\$ 1.42	\$ 1.29	
Diluted income per common share	\$ 0.13	\$ 1.41	\$ 1.28	

*Net sales.* Net sales by operating segment for the years ended December 31, 2009 and 2010 were:

(in thousands, except per share data and % change)

	<b>2009</b>	<b>2010</b>	<b>Increase (Decrease)</b>	<b>% Change</b>
Industrial materials	\$ 538,126	\$ 833,892	\$ 295,766	55
Engineered solutions	120,918	173,101	52,183	43
Total net sales	\$ 659,044	\$ 1,006,993	\$ 347,949	53

We experienced higher sales for both of our operating segments as a result of the improved global economic conditions in 2010. Our Industrial Materials operating segment benefitted from the restocking efforts of many of our customers, which began in the second half of 2009 and continued through 2010, as well as the inclusion of Seadrift and C/G for the month of December 2010. Our Engineered Solutions segment also saw benefits as a result of the recovering economy, as customers started the reordering process in response to increasing orders and production.

Our analysis of the percentage change in net sales for Industrial Materials and Engineered Solutions is set forth in the following table:

<b>Volume</b>	<b>Price/Mix</b>	<b>Currency</b>
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				<b>Net Change</b>
Industrial Materials	65%	(6%)	(4%)	55%
Engineered Solutions	48%	(3%)	(2%)	43%

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*Net sales.* Sales for the Industrial Materials segment increased significantly in 2010 when compared to 2009 due to higher graphite electrode sales volume. Partially offsetting this increased demand, we saw the weighted average selling price of our melter and non-melter graphite electrodes decrease by approximately 7%, exclusive of currency impacts, in 2010 when compared to 2009. Higher period over period electrode sales volumes are expected to continue to mitigate, in part, the lower electrode pricing. Our Engineered Solutions segment also saw a significant increase in volumes in 2010, offset slightly by an unfavorable price/mix, and currency impacts.

*Cost of sales.* The primary drivers of the increase in cost of sales were increases in shipments of our products of \$198.8 million, production costs of \$28.9 million and unfavorable foreign currency impact of \$7.6 million, across both of our segments during 2010 when compared to 2009. The year-over-year difference in the MTM Adjustment had an unfavorable impact of \$0.8 million (\$4.9 million expense in 2010; \$4.1 million expense in 2009). The 2010 cost of sales also included the amortization expense related to the technology intangible asset acquired in the acquisitions of Seadrift and C/G of \$0.5 million. The global recession led to a dramatic decline in the demand for, and corresponding production of, graphite electrodes during the first nine months of 2009. Our production volume began increasing in the second half of 2009 and continued to increase in the first half of 2010 before leveling off in the second half of the year as our customers ramped up production from the low levels experienced during the first half of 2009.

Needle coke is the primary raw material in the manufacture of graphite electrodes. We have traditionally purchased 70% to 80% of our needle coke requirements from one supplier under contracts with one-year firm price per metric ton schedules. Our production in 2010 began to use higher cost needle coke purchased in the fourth quarter of 2009, at prices which were approximately 45% higher than the cost of needle coke used in production during the first nine months of 2009. The inventory flow through of the higher cost raw material has increased our cost of goods for 2010 when compared to 2009. Higher volumes increased our fixed costs absorption in 2010, partially offsetting the higher needle coke cost.

In recent years, we historically purchased a majority of our requirements for petroleum coke, our principal raw material, from two plants of ConocoPhillips under supply agreements containing customary terms and conditions, including price renegotiation, dispute resolution and termination provisions. The termination provisions permitted either party to terminate the agreements at the end of a calendar year by giving the other party notice of termination by September 30 of that calendar year. During the course of our annual discussions with ConocoPhillips regarding our future needle coke requirements, including potential changes in such needs as a result of our then pending acquisition of Seadrift, as well as other provisions of the agreements which had become inapplicable due to changes in circumstances over the decade since the agreements were first established, the consensus of the parties was that the agreements should be terminated and that the parties enter into negotiations concerning future supply of needle coke. Accordingly, the agreements were terminated effective as of December 31, 2010 and we have entered into three-year supply agreements for the supply of needle coke. We believe the estimated quantities under the replacement agreements will be sufficient for our forecast raw material requirements.

*Research and development.* The year-over-year difference in the MTM Adjustment had an unfavorable impact of \$0.9 million (\$0.3 million expense in 2010; \$0.6 million benefit in 2009).

*Selling and administrative expenses.* Acquisition costs (i.e., advisory, legal, valuation, other professional fees, etc.) associated with our acquisitions of Seadrift and C/G represented \$15.2 million in 2010. We also experienced higher overhead expense due to increases in sales and marketing coverage to support internal growth initiatives during 2010 when compared to 2009. Other increases year over year related to our stock-based compensation expense which increased \$3.7 million, commission expense related to increased sales of \$1.6 million and the amortization expense incurred related to the customer list and trade names intangible assets acquired in the acquisitions of Seadrift and C/G of \$1.4 million. The year-over-year difference in the MTM Adjustment had an unfavorable impact of \$4.6 million (\$2.2 million expense in 2010; \$2.4 million benefit in 2009).

*Equity in losses (earnings) of, write-down of investment in and gain recorded on acquisition of non-consolidated affiliate.* We acquired an 18.9% interest in Seadrift on June 30, 2008, and subsequently acquired the remaining 81.1% of the equity interests in Seadrift on November 30, 2010. As a result of the acquisition of the remaining 81.1% of the equity interests in Seadrift, accounting guidance requires us to re-measure the book value of our previously held 18.9% equity interest at the

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acquisition date to fair value and recognize the resulting gain in our 2010 earnings. We recorded a \$9.6 million non-cash gain in our 2010 earnings.

Our equity in earnings for 2010 was \$4.9 million as compared to equity in losses of \$2.7 million in 2009. Additionally, in June 2009, we performed an assessment of our investment for impairment and determined that the fair value of the investment was less than our carrying value and that the loss in value was other than temporary. We recorded a \$52.8 million non-cash impairment to recognize this other than temporary loss in value.

*Other (income) expense.* Other (income) expense was income of \$4.8 million in 2010, compared to an expense in 2009 of \$1.9 million, due in large part to favorable currency gains of \$6.2 million in 2010 compared to losses of \$0.5 million in 2009.

*Interest expense.* Interest expense decreased in 2010 as a result of the low long term debt levels carried through 2010 when compared to the debt levels maintained throughout 2009. We expect our interest expense to increase in 2011 due to higher draws on our Revolving Facility and the amortization of the discount recorded with the issuance of the Senior Subordinated Notes.

*Segment operating income.* Corporate expenses are allocated to segments based on each segment's percentage of consolidated sales. The following table represents our operating income by segment for the years ended December 31, 2009 and 2010:

	<b>For the Year ended December 31,</b>	
	<b>2009</b>	<b>2010</b>
	<i>(Dollars in thousands)</i>	
Industrial Materials	\$ 86,586	\$ 140,217
Engineered Solutions	13,742	17,823
Total segment operating income	\$ 100,328	\$ 158,040

The percentage relationship of operating expenses to sales for Industrial Materials and Engineered Solutions is set forth in the following table:

	<b>2009</b>	<b>Operating Expenses 2010</b>	<b>Change</b>
		<i>(Percentage of sales)</i>	
Industrial Materials	84%	83%	(1%)
Engineered Solutions	89%	90%	1%

Segment operating costs and expenses as a percentage of sales for Industrial Materials decreased one percentage point. However, total operating costs and expenses increased \$242.1 million year over year. The increase was primarily a result of volume increases (including the effect of the additional volume from the acquisitions) of \$175.2 million, higher production costs of \$27.8 million, unfavorable currency exchange of \$9.3 million and acquisition costs incurred of \$15.2 million.

Segment operating costs and expenses as a percentage of sales for Engineered Solutions increased one percentage point to 90% in 2010 when compared to 2009. Total operating costs and expenses, increased \$48.1 million year over year. The increase was primarily a result of increases in volume of \$39.3 million which were offset by favorable currency of \$1.7 million.

*Provision for income taxes.* The provision for income taxes was a benefit of \$1.1 million on pre-tax income of \$173.6 million in 2010, compared to a tax expense of \$22.7 million on pre-tax income of \$38.4 million in 2009. The effective tax rates were (0.6%) and 59.1% respectively. The 2009 tax rate was negatively impacted primarily by an increase in the valuation allowance of \$22.8 million as a result of the impairment of our investment in Seadrift and the establishment of accruals for uncertain tax positions of \$6.1 million. As a result of our 2010 acquisitions, we are now in an overall net deferred tax liability position, and therefore, we reversed the provision for valuation allowance on certain deferred tax assets in the amount of \$30.3 million.



**Table of Contents****Results of Operations for 2009 as Compared to 2008**

(in thousands, except per share data and % change)

	<b>2008</b>	<b>2009</b>	<b>Increase (Decrease)</b>	<b>% Change</b>
Net sales	\$ 1,190,238	\$ 659,044	\$ (531,194)	(45)
Cost of sales	768,013	469,397	(298,616)	(39)
Gross profit	422,225	189,647	(232,578)	(55)
Research and development	12,238	9,390	(2,848)	(23)
Selling and administrative expenses	108,443	79,929	(28,514)	(26)
Operating income	301,544	100,328	(201,216)	(67)
Equity in losses of and write-down of investment in non-consolidated affiliate	36,256	55,488	19,232	53
Other expense	11,578	1,868	(9,710)	(84)
Interest expense	19,350	5,609	(13,741)	(71)
Interest income	(1,137)	(1,047)	(90)	NM
Income before provision for income taxes	235,497	38,410	(197,087)	(84)
Provision for income taxes	51,340	22,702	(28,638)	(56)
Net income	\$ 184,157	\$ 15,708	\$ (168,449)	(91)
Basic income per common share	\$ 1.65	\$ 0.13	\$ (1.52)	
Diluted income per common share	\$ 1.60	\$ 0.13	\$ (1.47)	

*Net sales.* Net sales by operating segment for the years ended December 31, 2008 and 2009 were:

(in thousands, except per share data and % change)

	<b>2008</b>	<b>2009</b>	<b>Increase (Decrease)</b>	<b>% Change</b>
Industrial materials	\$ 1,008,778	\$ 538,126	\$ (470,652)	(47)
Engineered solutions	181,460	120,918	(60,542)	(33)
Total net sales	\$ 1,190,238	\$ 659,044	\$ (531,194)	(45)

The global recession resulted in significantly reduced sales for both operating segments. We experienced reduced demand across all of our products lines as our customers, especially those in the Industrial Materials segment, used existing inventory in response to their decreased orders and production. In the second half of 2009 demand and shipments began to increase as customers began restocking their inventories in response to increasing orders and production.

Our analysis of the percentage change in net sales for Industrial Materials and Engineered Solutions is set forth in the following table:

	<b>Volume</b>	<b>Price/Mix</b>	<b>Currency</b>	<b>Net Change</b>
Industrial Materials	(55)%	8%		(47)%
Engineered Solutions	(36)%	4%	(1)%	(33)%



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The sales decline was partially offset by year-over-year price realization.

*Cost of sales.* The primary driver of the reduction in cost of sales was reduced shipments of our products. The global recession led to a dramatic decline in the demand for, and corresponding production of, graphite electrodes. Our customers aggressively managed their working capital by destocking their graphite electrode inventory supply which exacerbated the reduced demand for electrodes. The year-over-year difference in the MTM Adjustment had a favorable impact of \$11.1 million (\$4.1 million expense in 2009; \$15.2 million expense in 2008). Cost of sales was also negatively impacted due to the unfavorable fixed cost absorption associated with lower sales volume.

Needle coke is the primary raw material in the manufacture of graphite electrodes. We historically have purchased 70% to 80% of our needle coke requirements from one supplier under contracts with one-year firm price per metric ton schedules. Our purchases of needle coke in 2009 were limited and abnormally low due to the lower production level of graphite electrodes. Due to the historically low 2009 production volumes, and proactive inventory management, essentially all of our 2009 production was produced with needle coke that was in inventory at December 31, 2008, and carried the 2008 purchase price per metric ton.

During the fourth quarter of 2009 we began to replenish our needle coke raw material inventory at the 2009 purchase price per metric ton, which was approximately 50% higher than the 2008 purchase price per metric ton. As of December 31, 2009 essentially all of this higher cost material was still in inventory and, therefore, our 2009 cost of goods sold does not reflect the impact of the increased needle coke per metric ton cost.

*Research and development.* Increased research and development costs were offset in part by the favorable impact of the year-over-year difference in the MTM Adjustment of \$4.3 million (\$0.6 million benefit in 2009; \$3.7 million expense in 2008).

*Selling and administrative expenses.* Lower sales commissions as a result of decreased sales and aggressive cost control contributed to the decrease in selling and administrative expenses. The year-over-year difference in the MTM Adjustment had a favorable impact of \$15.8 million (\$2.4 million benefit in 2009; \$13.4 million expense in 2008). The derecognition of our liability for Brazilian excise taxes on manufactured goods resulted in a benefit of \$4.3 million and our stock-based compensation expense decreased \$1.5 million.

*Equity in losses and write-down of investment in non-consolidated affiliate.* We acquired our initial 18.9% investment in the non-consolidated affiliate on June 30, 2008. Our equity in losses for the year were \$(2.7) million compared to \$(1.7) in 2008. The increased losses were due in part to our recognizing our share of the investee losses for a full year as well as the effect of the recession on its operations. In June 2009, we performed an assessment of our investment for impairment and determined that the fair value of the investment was less than our carrying value and that the loss in value was other than temporary. We recorded a \$52.8 million non-cash impairment to recognize this other than temporary loss in value. In December 2008, we had recorded a \$34.5 million non-cash impairment to recognize the other than temporary loss in value determined at that time.

Given the current economic environment and the uncertainties surrounding the impact on steel producers and their suppliers, including our investee, there can be no assurances that our estimates and assumptions regarding the fair value of the investment will prove to be accurate. If the assumptions regarding forecasted revenue, growth rates, and expected profitability are not achieved, we may be required to record additional impairment charges in future periods.

*Other (income) expense.* Other expense decreased in 2009 due in large part to the expenses that were recognized in 2008 for the derecognition of the Debentures and the loss on extinguishment of debt. In 2009 we had other expense related to currency compared to income related to currency in 2008.

*Interest expense.* Interest expense decreased in 2009 as a result of the derecognition of the Debentures in 2008 and the redemption of all of the remaining outstanding Senior Notes in the third quarter of 2008.

*Segment operating income.* Corporate expenses are allocated to segments based on each segment's percentage of consolidated sales. The following table represents our operating income by segment for the years ended December 31, 2008 and 2009:

		<b>For the Year Ended December 31,</b>	
		<b>2008</b>	<b>2009</b>
<i>(Dollars in thousands)</i>			

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Industrial Materials	\$ 279,082	\$ 86,586
Engineered Solutions	22,462	13,742
Total segment operating income	\$ 301,544	\$ 100,328

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The percentage relationship of operating expenses, including restructuring and impairment charges, to sales for Industrial Materials and Engineered Solutions is set forth in the following table:

	2008	Operating Expenses 2009 (Percentage of sales)	Change
Industrial Materials	72%	84%	12%
Engineered Solutions	88%	89%	1%

*Provision for income taxes.* The provision for income taxes in 2009 was negatively impacted by an increase in the valuation allowance of \$22.8 and the establishment of accruals for uncertain tax positions of \$6.1 million. This increase was offset in part by a \$14.1 million worthless stock deduction and by \$5.1 million for tax exemptions, holidays and credits in various non-U.S. jurisdictions.

**EFFECTS OF INFLATION**

We incur costs in the U.S. and each of the six non-U.S. countries in which we have a manufacturing facility. In general, our results of operations, cash flows and financial condition are affected by the effects of inflation on our costs incurred in each of these countries.

**CURRENCY TRANSLATION AND TRANSACTIONS**

We translate the assets and liabilities of our non-U.S. subsidiaries into U.S. dollars for consolidation and reporting purposes in accordance with FASB ASC 830, *Foreign Currency Matters*. Foreign currency translation adjustments are generally recorded as part of stockholders' equity and identified as part of accumulated other comprehensive loss on the Consolidated Balance Sheets until such time as their operations are sold or substantially or completely liquidated.

We account for our Russian and Mexican subsidiaries using the dollar as the functional currency, as sales and purchases are predominantly dollar-denominated. Our remaining subsidiaries use their local currency as their functional currency.

We also record foreign currency transaction gains and losses from non-permanent intercompany balances as part of other (income) expense, net.

Significant changes in currency exchange rates impacting us are described under *Effects of Changes in Currency Exchange Rates* and *Results of Operations*.

**EFFECTS OF CHANGES IN CURRENCY EXCHANGE RATES**

When the currencies of non-U.S. countries in which we have a manufacturing facility decline (or increase) in value relative to the U.S. dollar, this has the effect of reducing (or increasing) the U.S. dollar equivalent cost of sales and other expenses with respect to those facilities. In certain countries where we have manufacturing facilities, and in certain instances where we price our products for sale in export markets, we sell in currencies other than the dollar. Accordingly, when these currencies increase (or decline) in value relative to the dollar, this has the effect of increasing (or reducing) net sales. The result of these effects is to increase (or decrease) operating profit and net income.

Many of the non-U.S. countries in which we have a manufacturing facility have been subject to significant economic and political changes, which have significantly impacted currency exchange rates. We cannot predict changes in currency exchange rates in the future or whether those changes will have net positive or negative impacts on our net sales, cost of sales or net income.

During 2010, the average exchange rates for the Brazilian real and the South African rand increased significantly, about 12% and 14%, respectively, when compared to 2009 rates. Also during 2010, the Mexican peso and the Japanese yen increased roughly 7%, while the euro decreased about 5%, as compared to 2009 rates. During 2009, the average exchange rate of the South African rand did not fluctuate materially, while the Mexican Peso, the Brazilian Real, and the Euro average rates decreased about 18%, 9%, and 5% respectively as compared to 2008 rates.

For net sales of industrial materials, the impact of these events was an increase of \$22.6 million in 2008, a decrease of \$1.4 million in 2009, and a decrease of \$20.4 million in 2010. For the cost of industrial materials, the impact of these events was an increase of \$9.7 million in 2008, an increase of \$3.1 million in 2009, and an increase of \$9.3 million in 2010.

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We have had intercompany term loans between GrafTech Finance and some of our foreign subsidiaries. We had no such term loans at December 31, 2009 or

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2010. At December 31, 2008, the aggregate principal amount of these term loans was \$558.4 million. These loans were subject to remeasurement gains and losses due to changes in currency exchange rates. Certain of these loans had been deemed to be essentially permanent prior to settlement and, as a result, remeasurement gains and losses on these loans were recorded as a component of accumulated other comprehensive loss in the stockholders' equity section of the Consolidated Balance Sheets. The remaining balance of these loans was deemed to be temporary and, as a result, remeasurement gains and losses on these loans were recorded as currency gains / losses in other income (expense), net, on the Consolidated Statements of Income.

As part of our cash management, we also have intercompany loans between our subsidiaries. These loans are deemed to be temporary and, as a result, remeasurement gains and losses on these loans are recorded as currency gains / losses in other income (expense), net, on the Consolidated Statements of Income.

We had net total of currency gains of \$2.2 million in 2008, a net total currency loss of \$0.5 million in 2009, and a net total currency gain of \$6.2 million in 2010, mainly due to the remeasurement of intercompany loans and the effect of transaction gains and losses on intercompany activities.

We have in the past and may in the future use various financial instruments to manage certain exposures to specific financial market risks caused by changes in currency exchange rates, as described under Item 7A Quantitative and Qualitative Disclosures about Market Risks.

## **LIQUIDITY AND CAPITAL RESOURCES**

We believe that we have adequate liquidity to meet all of our present needs. Future disruptions in the U.S. and international financial markets, however, could adversely affect the cost and availability of financing to us in the future.

At December 31, 2010, we had cash and cash equivalents of \$13.1 million, long-term debt of \$275.8 million and stockholders' equity of \$1,229.7 million. We also had \$126.6 million available through our Revolving Facility. As part of our cash management activities, we manage accounts receivable credit risk, collections, and accounts payable vendor terms to maximize our free cash at any given time and minimize accounts receivable losses.

We expend capital to support our operating and strategic plans. Such expenditures include investments to meet regulatory and environmental requirements, maintain capital assets, develop new products or improve existing products, acquisitions, and to enhance capacity or productivity. Many of the associated projects have long lead-times and require commitments in advance of actual spending. We are targeting capital expenditures to be in the \$135 million to \$150 million range for 2011.

Our sources of funds have consisted principally of cash flow from operations and debt, including our Revolving Facility. Our uses of those funds (other than for operations) have consisted principally of capital expenditures, cash paid for acquisitions and expenses thereof, our equity investment in a non-consolidated affiliate, and debt reduction payments and other obligations. As of December 31, 2010, we have several future obligations accrued that will utilize a significant amount of such funds. These obligations include our employee incentive compensation payout of approximately \$16.8 million, which will be paid during the second quarter of 2011.

We have an accounts receivable factoring arrangement in place that provides additional working capital liquidity of up to \$25 million. During 2009, certain subsidiaries sold receivables totaling \$32.1 million. Proceeds of the sale of receivables were used to reduce debt and fund operations. If we had not sold such receivables, our accounts receivable would have been about \$1.1 million higher at December 31, 2009. All such receivables sold during 2009 were sold without recourse, and no amount of accounts receivable sold are recorded in the Consolidated Balance Sheet. We did not sell any receivables under this arrangement during 2010.

Lower sales volumes for our products and reduced credit quality of our customers may limit the amount of receivables that we sell in the future. Our current receivable sales facility provides for the sale of certain customer accounts receivable and has a limit of \$25 million. The facility automatically renewed for a one

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year period on June 30, 2010, and it automatically renews each year thereafter for one year periods unless a termination notice is sent by either party 30 days prior to the applicable June 30<sup>th</sup>.

During 2008, we entered into a supply chain financing arrangement with a financing party that provides additional working capital liquidity of up to \$50 million. Under this arrangement, we essentially assigned our rights to purchase needle coke from a third-party supplier to the financing party. The financing party purchases the product from our supplier under the standard payment terms and then immediately resells it to us under longer payment terms. The financing party pays the supplier the purchase price for the product and then we pay the financing party. Our payment for this needle coke will include a mark up (the Mark-Up ). The Mark-Up is subject to quarterly reviews. In effect, we have a longer period of time to pay the financing party than by purchasing directly from the supplier which helps us maintain a balanced cash conversion cycle between inventory payments and the collection of receivables. We purchased approximately \$37.1 million and \$186.7 million of inventory under this arrangement in 2009 and 2010, respectively. In connection with these purchases, we incurred a Mark-Up of approximately \$0.5 million and \$1.5 million in 2009 and 2010, respectively. This agreement is subject to termination 90 days after notice is sent by either party. The underlying supply agreements have been terminated and we have executed replacement supply agreements which we expect to add to the supply chain financing arrangement.

In the event that operating cash flow, the sales of receivables and the financing of needle coke purchases fail to provide sufficient liquidity to meet our business needs, including capital expenditures, any such shortfall would be made up by increased borrowings under our Revolving Facility.

We use cash flow from operations, funds from receivable and payable factoring arrangements and funds available under the Revolving Facility (subject to continued compliance with the financial covenants and representations under the Revolving Facility) as well as cash on hand as our primary sources of liquidity. The Revolving Facility is secured, and provides for maximum borrowings of up to \$260 million including a letters of credit sub-facility of up to \$35 million and, subject to certain conditions (including a maximum senior secured leverage ratio test), an accordion feature that permits GrafTech Finance to establish additional credit facilities thereunder in an aggregate amount, together with the Revolving Facility, of up to \$390 million. The Revolving Facility matures in April 2013.

On January 14, 2010, S&P upgraded our corporate rating by two notches to BB+ and our senior secured debt rating to BBB. On April 14, 2010, Moody's Investors Services moved our rating outlook to positive from stable, assigned a Ba1 rating to our new senior secured Revolving Credit Facility, and affirmed our Ba2 corporate rating. These ratings reflect the current views of these rating agencies, and no assurance can be given that these ratings will continue for any given period of time. However, we monitor our financial condition as well as market conditions that could ultimately affect our credit ratings.

At December 31, 2010, we were in compliance with all financial and other covenants contained in the Revolving Facility, as applicable. These covenants include maintaining an interest coverage ratio of at least 1.75 to 1.00 and a maximum net senior secured leverage ratio of 2.25 to 1.00, subject to adjustment based on a rolling average of the prior four quarters. Based on expected operating results and expected cash flows, we expect to be in compliance with these covenants through maturity of our Revolving Facility. If we were to believe that we would not continue to comply with these covenants, we would seek an appropriate waiver or amendment from the lenders thereunder. We cannot assure you that we would be able to obtain such waiver or amendment on acceptable terms or at all.

Eight banks are participants in our credit facility. All of these eight banks currently have Standard & Poor's ( S&P ) ratings of BBB+ or better and Moody's ratings of Baa1 or better. Based on these ratings and the remaining term of the Revolving Facility, we do not anticipate that our availability under this facility would be reduced prior to its maturity.

At December 31, 2010, approximately 53% of our debt consists of fixed rate or zero interest rate obligations compared to 83% at December 31, 2009.

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**Long-Term Contractual, Commercial and Other Obligations and Commitments.** The following tables summarize our long-term contractual obligations and other commercial commitments at December 31, 2010.

	Total	Payments Due by Year Ending December 31,			
		2011	2012- 2013	2014- 2015	2016+
<i>(Dollars in thousands)</i>					
<b>Contractual and Other Obligations</b>					
Long-term debt	\$ 275,954	\$ 213	\$ 130,437	\$ 143,883	\$ 1,421
Operating leases	6,722	2,544	3,694	484	0
Purchase obligations (a)	477,541	190,344	287,197	0	0
Total contractual obligations	760,217	193,101	421,328	144,367	1,421
Postretirement, pension and related benefits (b)	87,145	6,833	7,713	7,394	65,205
Other long-term obligations	23,129	2,379	8,038	1,316	11,396
Uncertain income tax provisions	13,719	2,207	366	12	11,134
Total contractual and other obligations (a)(b)	\$ 884,210	\$ 204,520	\$ 437,445	\$ 153,089	\$ 89,156
<b>Other Commercial Commitments</b>					
Letters of credit (c)	\$ 8,461	\$ 8,461	\$ 0	\$ 0	\$ 0
Guarantees	1,000	971	0	0	29
Total other commercial commitments	\$ 9,461	\$ 9,432	\$ 0	\$ 0	\$ 29

(a) Based on the estimated timing of deliveries under supply contracts.

(b) Represents estimated postretirement, pension and related benefits obligations based on actuarial calculations.

(c) Letters of credit of \$3.4 million are issued under the Revolving Facility.

Our foreign subsidiaries have local lines of credit for working capital purposes. The total amount available under these lines of credit approximated \$15.7 million at December 31, 2010.

**Cash Flow and Plans to Manage Liquidity.** Our business strategies include efforts to enhance our capital structure by further reducing our gross obligations to enable us to pursue strategic growth opportunities that may arise. Our efforts include leveraging our global manufacturing network by driving higher utilization rates and more productivity from our existing assets, accelerating commercialization initiatives across all of our businesses and realizing other global efficiencies.

Typically, our cash flow from operations fluctuates significantly between quarters due to various factors. These factors include customer order patterns, fluctuations in working capital requirements, and other factors.

We had positive cash flow from operations during 2008, 2009, and 2010. Although the global economic environment has experienced significant swings in these three years, our aggressive working capital management and cost-control initiatives have allowed us to remain cash flow positive in both times of declining and improving operating results.

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Certain of our obligations could have a material impact on our liquidity. Cash flow from operations services payment of our obligations, including our incentive compensation program payout in the second quarter of 2011, thereby reducing funds available to us for other purposes. Although we currently have \$126.6 million of additional borrowing capacity under the Revolving Facility, continued improvement, or another downturn, in the global economy may require increased borrowings under our Revolving Facility, particularly if our accounts receivable and supply chain financing arrangements are terminated. An improving economy, while resulting in improved results of operations and cash flows, could require significant cash requirements to purchase inventories and pay other obligations as

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accounts receivable increase. A downturn could significantly negatively impact our results of operations and cash flows, which, coupled with increased borrowings, could negatively impact our credit ratings, our ability to comply with debt covenants, our ability to secure additional financing and the cost of such financing, if available.

Based on expected operating results and expected cash flows, we expect to be in compliance with our existing financial covenants in 2011.

In order to seek to minimize our credit risks, we reduce our sales of, or refuse to sell (except for cash on delivery or under letters of credit), our products to some customers and potential customers. In the current economic environment, our customers may experience liquidity shortages or difficulties in obtaining credit, including letters of credit. Our unrecovered trade receivables worldwide have not been material during the last 3 years individually or in the aggregate. We cannot assure you that we will not be materially adversely affected by accounts receivable losses in the future. In addition, we have historically factored a portion of our accounts receivable and used the proceeds to reduce debt. Our ability to factor accounts receivable in the future may be limited by reduced credit ratings of customers or by a reduction in the amount permitted to be financed under the arrangement.

In December 2007, our Board of Directors approved a share repurchase program authorizing the purchase of up to 3 million shares of our common stock. Share repurchases may take place from time to time in the open market, or through privately negotiated transactions, as market conditions warrant. We intend to fund any such share repurchases from available cash and cash flows. These share repurchases may be suspended or discontinued at any time.

**Off-Balance Sheet Arrangements and Commitments.** We have not undertaken or been a party to any material off-balance-sheet financing arrangements or other commitments (including non-exchange traded contracts), other than:

Foreign exchange and commodity contracts.

Commitments under non-cancelable operating leases that, at December 31, 2009, totaled no more than \$2.4 million in each year and about \$7.1 million in the aggregate, and at December 31, 2010, totaled no more than \$2.5 million in each year and about \$6.7 million in the aggregate.

Letters of credit outstanding under our Revolving Facility of \$3.4 million.

We are not affiliated with or related to any special purpose entity other than GrafTech Finance, our wholly-owned and consolidated finance subsidiary.

*Cash Flows.*

The following is a discussion of our cash flow activities:

	2008	Years Ended December 31, 2009	2010
	<i>(Dollars in millions)</i>		
Cash flow provided by (used in):			
Operating activities	\$ 248.6	\$ 170.3	\$ 144.9
Investing activities	(209.9)	(60.1)	(321.6)
Financing activities	(80.2)	(72.9)	138.2
<i>Operating Activities</i>			

Cash flow from operating activities represents cash receipts and cash disbursements related to all our activities other than to investing and financing activities. Operating cash flow is derived by adjusting net income for:

Non-cash items such as depreciation and amortization; write-down of our investment in our non-consolidated affiliate; stock-based compensation charges; equity in losses of our non-consolidated affiliate

Gains and losses attributed to investing and financing activities such as gains and losses on the sale of assets and currency (gains) and losses

Changes in operating assets and liabilities which reflect timing differences between the receipt and payment of cash associated with transactions and when they are recognized in results of operations

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While our operating cash flow increased significantly in 2008, it decreased by over \$70 million in 2009 mainly due to the decrease in net income which was a direct impact of the severe economic recession and other reasons noted throughout this MD&A. During 2010, although the global economy began to recover, our improved operating results were negatively impacted by increased inventory purchases and the build of accounts receivable as business ramped to near pre-recessionary levels. This resulted in a \$25.4 million decrease in operating cash flow, despite the improved economic operating environment.

The net impact of the changes in working capital (operating assets and liabilities), which are discussed in more detail below, include the impact of changes in: receivables, inventories, prepaid expenses, accounts payable, accrued liabilities, interest payable, and payments of other current liabilities. We continue to maximize our operating cash flows by continuing to improve those working capital items that are most directly affected by changes in sales volume, such as accounts receivable, inventories and accounts payable.

In 2010, changes in working capital resulted in a net use of funds of \$41.8 million which was impacted by:

use of funds of \$40.9 million from the increase in accounts receivable, including the effect of factoring for \$1.1 million, which was due primarily to increased sales for the period;

use of funds for inventories of \$13.6 million primarily due to the increased sales volume; and

source of funds of \$15.0 million from an increase in accounts payable and accruals through normal operations and inventory purchases.

Other items that affected our operating cash flow included cash outflows of \$3.2 million for contributions to pension and post retirement plans, and \$15.2 million of customary acquisition related expenses.

In 2009, changes in working capital resulted in a net source of funds of \$67.6 million which was impacted by:

cash inflows from a \$33.9 million decrease in accounts receivable, net of factoring of \$(24.3) million, which was primarily attributable to decreased sales, credit risk policies, and cash collection efforts;

cash inflows of \$69.6 million from the reduction of inventories which was primarily due to decreased purchases of raw materials as a result of decreased sales; and

cash outflows of \$21.2 million for accounts payable due to the decrease in inventory purchases and the timing of payments.

Other items that affected our operating cash flow included:

cash inflows from Federal income tax refunds of \$3.7 million;

cash outflows of \$3.9 million to settle our liability for Brazil excise tax;

cash outflows of \$6.1 million for our contributions to pension and post-retirement plans;

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cash outflows of \$1.7 million to restore wage reductions instituted in 2009; and

cash outflows of \$1.4 million to terminate an information technology outsourcing services contract. Our reduction of debt levels resulted in a cash interest savings of \$13.3 million.

In 2008, changes in working capital resulted in a net use of funds of \$19.9 million which was impacted by:

cash outflows of \$1.2 million from the increase in accounts receivable, net of the cash inflows of factoring of \$24.3 million, which was due primarily to increased sales;

cash outflows for inventories of \$29.3 million primarily due to the inventory build for increased sales volume; Other items that affected our operating cash flow included cash interest savings of \$22.6 million resulting from reduced debt levels which was offset in part by cash outflows of \$9.0 million for the make-whole payment related to the redemption of our Debentures and cash outflows of \$10.7 million for our contributions to pension and post-retirement plans.

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*Investing Activities.*

Net cash used in investing activities was \$321.6 million in 2010 and included:

cash outflow of \$241.2 million, paid to shareholders of Seadrift and C/G net of cash acquired of \$8.2 million.

capital expenditures of \$86.0 million;

proceeds of \$6.0 million received as a result of the repayment of our loan to Seadrift;

Net cash used in investing activities was \$60.1 million in 2009 and included:

capital expenditures of \$56.2 million;

loan of \$6.0 million to our non-consolidated affiliate, Seadrift;

proceeds of \$1.0 million from derivative contracts settlements; and

proceeds from the release of escrowed funds of \$1.0 million related to the sale of our Caserta, Italy facility.

Net cash used in investing activities was \$209.9 million in 2008 and included:

capital expenditures of \$72.0 million;

payment of \$136.5 million to purchase our initial equity investment in our non-consolidated affiliate, Seadrift; and

payment of \$1.7 million to settle certain natural gas derivative contracts.

*Financing Activities.*

Net cash flow provided by financing activities was \$138.2 million in 2010 and included:

net borrowings under our Revolving Facility of \$130.0 million to finance acquisitions of Seadrift and C/G;

net borrowings under our supply chain financing arrangement of \$10.6 million;

proceeds from exercised stock options of \$3.9 million;

payments of \$4.6 million related to bank fees and charges to amend and restate our credit agreement;  
Net cash flow used in financing activities was \$72.9 million in 2009 and included:

repayment of our Senior Notes (\$20.0 million);

net repayments of borrowings under our Revolving Facility (\$30.0 million), our supply chain financing arrangement (\$15.7 million), and other short-term debt arrangements (\$8.1 million);

proceeds from the a Spanish government incentive loan (\$1.8 million); and

payments on the financing arrangement related to the sale-leaseback of a portion of our Vyazma, Russia facility (\$1.0 million).  
Net cash flow used in financing activities was \$80.2 million in 2008 and included:

net borrowings of \$69.8 million under our Revolving Facility (\$30 million), our supply chain financing arrangement (\$30.1 million), and other short-term debt arrangements (\$9.7 million);

redemption of Senior Notes (\$180.0 million);

proceeds from the exercise of stock options (\$37.2 million) and income tax benefits from stock-based compensation programs (\$14.3 million); and

shares purchased under our share repurchase program (\$21.2 million).

**Table of Contents****COSTS RELATING TO PROTECTION OF THE ENVIRONMENT**

We have been and are subject to increasingly stringent environmental protection laws and regulations. In addition, we have an on-going commitment to rigorous internal environmental protection standards. Environmental considerations are part of all significant capital expenditure decisions. The following table sets forth certain information regarding environmental expenses and capital expenditures.

	2008	Years Ended December 31, 2009 <i>(Dollars in thousands)</i>	2010
Expenses relating to environmental protection	\$ 17,333	\$ 9,196	\$ 12,475
Capital expenditures related to environmental protection	22,865	10,901	6,535

**CRITICAL ACCOUNTING POLICIES**

Critical accounting policies are those that require difficult, subjective or complex judgments by management, often as a result of the need to make estimates about the effect of matters that are inherently uncertain and may change in subsequent periods. Our significant accounting policies are described in Note 1 *Business and Summary of Significant Accounting Policies* of the Notes to the Consolidated Financial Statements. The following accounting policies are deemed to be critical.

**Business Combinations and Goodwill.** The application of the purchase method of accounting for business combinations requires the use of significant estimates and assumptions in the determination of the fair value of assets acquired and liabilities assumed in order to properly allocate purchase price consideration between assets that are depreciated and amortized from goodwill. Our estimates of the fair values of assets and liabilities acquired are based on assumptions believed to be reasonable, and when appropriate, include assistance from independent third-party appraisal firms.

As a result of our acquisitions of Seadrift Coke L.P. and C/G Electrodes LLC, we have a significant amount of goodwill. Goodwill is tested for impairment annually or more frequently if an event or circumstances indicates that an impairment loss may have been incurred. Application of the goodwill impairment test requires judgment, including the identification of reporting units, assignment of assets and liabilities to reporting units, assignment of goodwill to reporting units and determination of the fair value of each reporting unit. We estimate the fair value of each reporting unit using a discounted cash flow methodology. This requires us to use significant judgment including estimation of future cash flows, which is dependent on internal forecasts, estimation of the long-term growth for our business, the useful life over which cash flows will occur, determination of our weighted average cost of capital for purposes of establishing discount rate and relevant market data.

Our annual impairment test of goodwill was performed in the fourth quarter. The estimated fair values of our reporting units were based on discounted cash flow models derived from internal earnings forecasts and assumptions. The assumptions and estimates used in these valuations incorporated the current economic environment in performing our 2010 impairment test. Our model was based on our internally developed forecast for 2011-2013, then adding a 2% growth to each subsequent year in the model. We believe these estimated assumptions are appropriate for our circumstances, including our historical results, consistent with our forecasted long-term business model and give consideration to the current economic environment.

Based on these valuations, we determined that the fair values of our reporting units exceeded their carrying values and no goodwill impairment charge was required during the fourth quarter 2010.

Refer to Note 1 *Business and Summary of Significant Accounting Policies* of the Notes to the Consolidated Financial Statements for further information regarding our goodwill impairment testing.

**Reliance on Estimates.** In preparing the Consolidated Financial Statements, we use and rely on estimates in determining the economic useful lives of our assets, obligations under our employee benefit plans, provisions for doubtful accounts, provisions for restructuring charges and contingencies, tax valuation allowances, evaluation of goodwill, our investment in a

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non-consolidated affiliate and other intangible assets, pension and postretirement benefit obligations and various other recorded or disclosed amounts, including inventory valuations. Estimates require us to use our judgment. While we believe that our estimates for these matters are reasonable, if the actual amount is significantly different than the estimated amount, our assets, liabilities or results of operations may be overstated or understated.

**Employee Benefit Plans.** We sponsor various retirement and pension plans, including defined benefit and defined contribution plans and postretirement benefit plans that cover most employees worldwide. Excluding the defined contribution plans, accounting for these plans requires assumptions as to the discount rate, expected return on plan assets, expected salary increases and health care cost trend rate. See Note 12 *Retirement Plans and Postretirement Benefits* of the Notes to the Consolidated Financial Statements for further details.

**Contingencies.** We account for contingencies by recording an estimated loss when information available prior to issuance of the Consolidated Financial Statements indicates that it is probable that an asset has been impaired or a liability has been incurred at the date of the Consolidated Financial Statements and the amount of the loss can be reasonably estimated. Accounting for contingencies such as those relating to environmental, legal and income tax matters requires us to use our judgment. While we believe that our accruals for these matters are adequate, if the actual loss is significantly different from the estimated loss, our results of operations may be overstated or understated. Legal costs expected to be incurred in connection with a loss contingency are expensed as incurred.

**Investments in Non-Consolidated Affiliates.** We use the equity method to account for investments in entities that we do not control, but where we have the ability to exercise significant influence.

**Impairments of Long-Lived Assets.** We record impairment losses on long-lived assets used in operations when events and circumstances indicate that the assets might be impaired and the future undiscounted cash flows estimated to be generated by those assets are less than the carrying amount of those assets. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset to estimated future undiscounted net cash flows to be generated by the asset. If the asset is considered to be impaired, the impairment to be recognized is measured by the amount by which the carrying amount of the asset exceeds the estimated fair value of the asset. Assets to be disposed are reported at the lower of the carrying amount or fair value less estimated costs to sell. Estimates of the future cash flows are subject to significant uncertainties and assumptions. If the actual value is significantly less than the estimated fair value, our assets may be overstated. Future events and circumstances, some of which are described below, may result in an impairment charge:

new technological developments that provide significantly enhanced benefits over our current technology;

significant negative economic or industry trends;

changes in our business strategy that alter the expected usage of the related assets; and

future economic results that are below our expectations used in the current assessments.

**Accounting for Income Taxes.** When we prepare the Consolidated Financial Statements, we are required to estimate our income taxes in each of the jurisdictions in which we operate. This process requires us to make the following assessments:

estimate our actual current tax liability in each jurisdiction;

estimate our temporary differences resulting from differing treatment of items for tax and accounting purposes (which result in deferred tax assets and liabilities that we include within the Consolidated Balance Sheets); and

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assess the likelihood that our deferred tax assets will be recovered from future taxable income and, if we believe that recovery is not more likely than not, a valuation allowance is established.

If our estimates are incorrect, our deferred tax assets or liabilities may be overstated or understated.

**Revenue Recognition** Revenue from sales of our products is recognized when persuasive evidence of an

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arrangement exists, delivery has occurred, title has passed, the amount is determinable and collection is reasonably assured. Sales are recognized when both title and the risks and rewards of ownership are transferred to the customer or services have been rendered and fees have been earned in accordance with the contract. Volume discounts and rebates are recorded as a reduction of revenue in conjunction with the sale of the related products. Changes to estimates are recorded when they become probable. Shipping and handling revenues relating to products sold are included as an increase to revenue. Shipping and handling costs related to products sold are included as an increase to cost of sales.

**Stock-Based Compensation Plans.** Stock-based compensation expense is measured at the grant date, based on the fair market value of the award and recognized over the requisite service period. The fair value of restricted stock is based on the trading price of our common stock on the date of grant, less required adjustments to reflect dividends paid and expected forfeitures or cancellations of awards throughout the vesting period, which ranges between one and three years. Our stock option compensation expense calculated under the fair value method, using a Black Scholes model, is recognized over the vesting period, which ranges between one and three years.

## **RECENT ACCOUNTING PRONOUNCEMENTS**

We discuss recently adopted and issued accounting standards in Note 1 *Business and Summary of Significant Accounting Policies* of the Notes to the Consolidated Financial Statements.

## **DESCRIPTION OF OUR FINANCING STRUCTURE**

We discuss our financing structure in more detail in Note 6 *Long-Term Debt and Liquidity* of the Notes to the Consolidated Financial Statements.

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

We are exposed to market risks primarily from changes in interest rates, currency exchange rates, energy commodity prices and commercial energy rates. We, from time to time, routinely enter into various transactions that have been authorized according to documented policies and procedures to manage these well-defined risks. These transactions relate primarily to financial instruments described below. Since the counterparties, if any, to these financial instruments are large commercial banks and similar financial institutions, we do not believe that we are exposed to material counterparty credit risk. We do not use financial instruments for trading purposes.

Our exposure to changes in interest rates results primarily from floating rate long-term debt tied to LIBOR or Euro LIBOR. Our exposure to changes in currency exchange rates results primarily from:

sales made by our subsidiaries in currencies other than local currencies;

raw material purchases made by our foreign subsidiaries in currencies other than local currencies; and

investments in and intercompany loans to our foreign subsidiaries and our share of the earnings of those subsidiaries, to the extent denominated in currencies other than the dollar.

Our exposure to changes in energy costs results primarily from the purchase or sale of refined oil products, and the purchase of natural gas and electricity for use in our manufacturing operations.

**Interest Rate Risk Management.** We periodically implement interest rate management initiatives to seek to minimize our interest expense and the risk in our portfolio of fixed and variable interest rate obligations.

We periodically enter into agreements with financial institutions that are intended to limit, or cap, our exposure to incurrence of additional interest expense due to increases in variable interest rates. These instruments effectively cap our interest rate exposure.



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***Currency Rate Management.*** We enter into foreign currency derivatives from time to time to attempt to manage exposure to changes in currency exchange rates. These foreign currency derivatives, which include, but are not limited to, forward exchange contracts and purchased currency options, attempt to hedge global currency exposures, net, relating to non-dollar denominated debt and identifiable foreign currency receivables, payables and commitments held by our foreign and domestic subsidiaries. Forward exchange contracts are agreements to exchange different currencies at a specified future date and at a specified rate. Purchased foreign currency options are instruments which give the holder the right, but not the obligation, to exchange different currencies at a specified rate at a specified date or over a range of specified dates. Forward exchange contracts and purchased currency options are carried at market value.

The outstanding foreign currency derivatives at December 31, 2009 and 2010 represented a net unrealized loss of \$0.1 million and a net unrealized gain of \$0.8 million, respectively.

***Energy Commodity Management.*** We periodically enter into commodity derivative contracts and short duration fixed rate purchase contracts to effectively fix some or all of our natural gas, and refined oil product exposure. The outstanding contracts at December 31, 2009 and 2010 represented net unrealized gains of \$0.1 million and \$0.6 million, respectively.

***Sensitivity Analysis.*** We used a sensitivity analysis to assess the potential effect of changes in currency exchange rates on gross margin and changes in interest rates on interest expense. Based on this analysis, a hypothetical 10% weakening or strengthening in the dollar across all other currencies would have changed our reported gross margin for 2010 by approximately \$1.1 million. Based on this analysis, a hypothetical increase in interest rates of 1,000 basis points (10%) would have increased our interest expense by \$1.2 million for the year ended December 31, 2010.

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

*(Unless otherwise noted, all dollars are presented in thousands)*

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See the Table of Contents located at the beginning of this Report for more detailed page references to information contained in this Item.

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**MANAGEMENT'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING**

Management is responsible for establishing and maintaining adequate internal control over financial reporting. 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, the chief executive officer and chief financial officer and effected by the board of directors, management and other personnel of a company, 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 transactions and dispositions of 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 the board of directors; and

provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of assets of the company that could have a material effect on its financial statements.

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

Management has conducted an assessment of the effectiveness of our internal control over financial reporting as of December 31, 2010 using the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in *Internal Control-Integrated Framework*. Based on that assessment, management concluded that our internal control over financial reporting was effective as of December 31, 2010. Management's assessment of our internal control over financial reporting excluded from its scope an assessment of internal control over financial reporting with respect to the operations and related assets of Seadrift and C/G, both of which were acquired during fiscal year 2010. Registrants are permitted to exclude an acquired business' internal controls over financial reporting from its management's assessment during the first year of the acquisition. Seadrift and C/G are wholly owned subsidiaries whose total assets and total net sales represent 50% and 2%, respectively, of the related consolidated financial statement amounts as of and for the year ended December 31, 2010. The effectiveness of the Company's internal control over financial reporting has been audited by PricewaterhouseCoopers, LLP, our independent registered public accounting firm, as stated in their report which is presented in this Annual Report on Form 10-K/A.

Date: February 24, 2011

/s/ CRAIG S. SHULAR  
Craig S. Shular,  
Chief Executive Officer, President and  
Chairman of the Board and Acting Chief Financial Officer

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**Report of Independent Registered Public Accounting Firm**

To the Board of Directors and Stockholders of GrafTech International Ltd.:

In our opinion, the accompanying consolidated balance sheets and the related consolidated statements of income, stockholders' equity and cash flows present fairly, in all material respects, the financial position of GrafTech International Ltd. and its subsidiaries at December 31, 2010 and 2009 and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2010 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2010, based on criteria established in Internal Control - Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for these financial statements, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control over Financial Reporting under Item 9A. Our responsibility is to express opinions on these financial statements and on the Company's internal control over financial reporting based on our integrated 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 audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

As discussed in Note 1 to the consolidated financial statements, the Company changed the manner in which it accounts for pension and other postretirement benefits and the manner in which it accounts for costs included in inventory effective January 1, 2011.

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

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

As described in Management's Report on Internal Control over Financial Reporting appearing under Item 9A, management has excluded Seadrift Coke, L.P. ( Seadrift ) and C/G Electrodes LLC ( C/G ) from its assessment of internal control over financial reporting as of December 31, 2010 because they were acquired by the Company in a purchase business combination during 2010. We have also excluded Seadrift and C/G from our audit of internal control over financial reporting. Seadrift and C/G are wholly owned subsidiaries whose total assets and total net sales represent 50% and 2%, respectively, of the related consolidated financial statement amounts as of and for the year ended December 31, 2010.

/s/ PRICEWATERHOUSECOOPERS LLP

Cleveland, Ohio

February 24, 2011, except with respect to our opinion on the consolidated financial statements insofar as it relates to the effects of the changes in accounting for pension and other postretirement benefits and accounting for costs included in inventory discussed in Note 1, as to which the date is May 13, 2011

**Table of Contents****GRAFTECH INTERNATIONAL LTD. AND SUBSIDIARIES****CONSOLIDATED BALANCE SHEETS***(Dollars in thousands, except share data)*

	<b>At December 31, 2009</b>	<b>At December 31, 2010</b>
<b>ASSETS</b>		
Current Assets:		
Cash and cash equivalents	\$ 50,181	\$ 13,096
Accounts and notes receivable, net of allowance for doubtful accounts of \$4,545 at December 31, 2009 and \$3,892 at December 31, 2010	117,495	179,755
Inventories	245,511	340,418
Loan to non-consolidated affiliate	6,000	0
Prepaid expenses and other current assets	9,711	12,615
Total current assets	428,898	545,884
Property, plant and equipment	982,173	1,328,004
Less: accumulated depreciation	610,182	635,530
Net property, plant and equipment	371,991	692,474
Deferred income taxes	11,437	6,746
Goodwill	9,037	499,238
Other assets	7,298	168,700
Investment in non-consolidated affiliate	63,315	0
Restricted cash	632	141
Total assets	\$ 892,608	\$ 1,913,183
<b>LIABILITIES AND STOCKHOLDERS EQUITY</b>		
Current liabilities:		
Accounts payable	\$ 33,928	\$ 69,930
Short-term debt	1,113	155
Accrued income and other taxes	38,977	30,019
Supply chain financing liability	14,404	24,959
Other accrued liabilities	91,907	95,580
Total current liabilities	180,329	220,643
Long-term debt	1,467	275,799
Other long-term obligations	108,267	114,728
Deferred income taxes	25,486	72,287
Contingencies Note 14		
Stockholders equity:		
Preferred stock, par value \$.01, 10,000,000 shares authorized, none issued	0	0
Common stock, par value \$.01, 225,000,000 shares authorized, 124,027,399 shares issued at December 31, 2009 and 149,063,197 shares issued at December 31, 2010	1,240	1,491
Additional paid-in capital	1,300,051	1,782,859
Accumulated other comprehensive loss	(232,245)	(235,758)
Accumulated deficit	(378,601)	(203,941)

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Less: cost of common stock held in treasury, 3,974,345 shares at December 31, 2009 and 4,081,134 at December 31, 2010	(112,511)	(113,942)
Less: common stock held in employee benefit and compensation trusts, 71,493 shares at December 31, 2009 and 76,259 shares at December 31, 2010	(875)	(983)
Total stockholders' equity	577,059	1,229,726
Total liabilities and stockholders' equity	\$ 892,608	\$ 1,913,183

See accompanying Notes to the Consolidated Financial Statements

**Table of Contents****GRAFTECH INTERNATIONAL LTD. AND SUBSIDIARIES****CONSOLIDATED STATEMENTS OF INCOME***(Dollars in thousands, except per share data)*

	<b>For the year ended December 31,</b>		
	<b>2008</b>	<b>2009</b>	<b>2010</b>
Net sales	\$ 1,190,238	\$ 659,044	\$ 1,006,993
Cost of sales	768,013	469,397	717,742
Gross profit	422,225	189,647	289,251
Research and development	12,238	9,390	12,202
Selling and administrative expenses	108,443	79,929	119,009
Operating income	301,544	100,328	158,040
Equity in losses (earnings) of, write-down of investment in and gain recorded on acquisition of non-consolidated affiliate	36,256	55,488	(14,500)
Other expense (income), net	11,578	1,868	(4,768)
Interest expense	19,350	5,609	5,076
Interest income	(1,137)	(1,047)	(1,333)
Income before provision (benefit) for income taxes	235,497	38,410	173,565
Provision (benefit) for income taxes	51,340	22,702	(1,095)
Net income	\$ 184,157	\$ 15,708	\$ 174,660
Basic income per common share:			
Net income per share	\$ 1.65	\$ 0.13	\$ 1.42
Weighted average common shares outstanding	111,447	119,707	122,621
Diluted income per common share:			
Net income per share	\$ 1.60	\$ 0.13	\$ 1.41
Weighted average common shares outstanding	119,039	120,733	123,453

See accompanying Notes to Consolidated Financial Statements

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## GRAFTECH INTERNATIONAL LTD. AND SUBSIDIARIES

## CONSOLIDATED STATEMENTS OF CASH FLOWS

*(Dollars in thousands)*

	<b>For the year ended December 31,</b>		
	<b>2008</b>	<b>2009</b>	<b>2010</b>
Cash flow from operating activities:			
Net income	\$ 184,157	\$ 15,708	\$ 174,660
Adjustments to reconcile net income to cash provided by operations:			
Depreciation and amortization	35,427	32,737	42,664
Deferred income tax provision (benefit)	(6,845)	(11,154)	(29,028)
Equity in losses (earnings) of, write-down of investment in and gain recorded on acquisition of non-consolidated affiliate	36,256	55,488	(14,500)
Post-retirement and pension plan changes	33,286	5,545	11,088
Gain on redemption of Debentures	(4,060)	0	0
Currency (gains) losses	(7,681)	629	(7,153)
Stock-based compensation, including incentive compensation paid in company stock	4,903	6,845	7,355
Interest expense	7,776	1,366	2,620
Other charges, net	(883)	6,464	4,299
Dividends from non-consolidated affiliate	553	122	0
(Increase) decrease in working capital*	(19,919)	67,608	(41,790)
(Increase) in long-term assets and liabilities	(14,334)	(11,029)	(5,293)
Net cash provided by operating activities	248,636	170,329	144,922
Cash flow from investing activities:			
Capital expenditures	(71,954)	(56,220)	(86,049)
(Investment in and loan to) repayment from non-consolidated affiliate	(136,467)	(6,000)	6,000
(Payments) proceeds from derivative instruments	(1,731)	984	(1,109)
Net change in restricted cash	96	819	491
Cash paid for acquisitions net of cash acquired of \$8,240	0	0	(241,204)
Other	198	307	319
Net cash used in investing activities	(209,858)	(60,110)	(321,552)
Cash flow from financing activities:			
Short-term debt borrowings (reductions), net	9,699	(8,128)	(850)
Revolving Facility borrowings	180,000	124,715	165,000
Revolving Facility reductions	(150,000)	(155,231)	(35,000)
Proceeds from long-term debt	0	1,837	0
Principal payments on long-term debt	(179,674)	(20,041)	(56)
Supply chain financing	30,115	(15,711)	10,555
Proceeds from exercise of stock options	37,162	651	3,901
Purchase of treasury shares	(21,216)	0	(1,431)
Excess tax benefit from stock-based compensation	14,327	124	1,864
Long-term financing obligations	(628)	(1,091)	(1,148)
Revolver facility refinancing cost	0	0	(4,595)
Net cash (used in) provided by financing activities	(80,215)	(72,875)	138,240
Net (decrease) increase in cash and cash equivalents	(41,437)	37,344	(38,390)
Effect of exchange rate changes on cash and cash equivalents	(1,640)	1,173	1,305
Cash and cash equivalents at beginning of period	54,741	11,664	50,181
Cash and cash equivalents at end of period	\$ 11,664	\$ 50,181	\$ 13,096

See accompanying Notes to the Consolidated Financial Statements

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## GRAFTECH INTERNATIONAL LTD. AND SUBSIDIARIES

## CONSOLIDATED STATEMENTS OF CASH FLOWS (Continued)

*(Dollars in thousands)*

	<b>For the year ended December 31,</b>		
	<b>2008</b>	<b>2009</b>	<b>2010</b>
<i>Supplemental disclosures of cash flow information:</i>			
<i>Net cash paid during the periods for:</i>			
<i>Interest</i>	\$ 18,693	\$ 5,413	\$ 2,294
<i>Income taxes</i>	39,880	32,707	31,385
<i>Non-cash operating, investing and financing activities:</i>			
<i>Common stock issued to savings and pension plan trusts</i>	2,680	2,393	2,572
<i>* Net change in working capital due to the following components:</i>			
<i>(Increase) decrease in current assets:</i>			
<i>Accounts and notes receivable, net</i>	\$ (25,530)	\$ 58,210	\$ (39,780)
<i>Effect of factoring of accounts receivable</i>	24,299	(24,268)	(1,115)
<i>Inventories</i>	(29,278)	69,630	(13,641)
<i>Prepaid expenses and other current assets</i>	252	904	(1,719)
<i>Restructuring payments</i>	(922)	(35)	(809)
<i>Increase (decrease) in accounts payables and accruals</i>	19,940	(35,908)	15,029
<i>(Decrease) increase in interest payable</i>	(8,680)	(925)	245
 <i>(Increase) decrease in working capital</i>	 \$ (19,919)	 \$ 67,608	 \$ (41,790)

See accompanying Notes to the Consolidated Financial Statements

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## GRAFTECH INTERNATIONAL LTD. AND SUBSIDIARIES

## CONSOLIDATED STATEMENT OF STOCKHOLDERS EQUITY

*(Dollars in thousands, except share data)*

	Issued Shares of Common Stock	Common Stock	Additional Paid-in Capital	Accumulated Other Comprehensive Loss	Accumulated Deficit	Treasury Stock	Common Stock Held in Employee Benefit & Trust	Total Stockholders Equity	Total Comprehensive Income (Loss)
<b>Balance at January 1, 2008</b>	105,169,507	\$ 1,052	\$ 1,025,965	\$ (218,117)	\$ (578,466)	\$ (85,197)	\$ (6,835)	\$ 138,402	
Comprehensive income (loss):									
Net income	0	0	0	0	184,157	0	0	184,157	\$ 184,157
Other comprehensive income:									
Pension and post-retirement adjustments, net of tax	0	0	0	(3,858)	0	0	0	(3,858)	(3,858)
Unrealized losses on securities	0	0	0	(1,908)	0	0	0	(1,908)	(1,908)
Foreign currency translation adjustments	0	0	0	(55,520)	0	0	0	(55,520)	(55,520)
Total comprehensive income									\$ 122,871
Treasury stock	0				0	(27,263)		(27,263)	
Derecognition of Debentures	13,559,604	136	205,851					205,987	
Stock-based compensation	522,623	5	4,903	0	0	(51)	0	4,857	
Stock held in employee benefit and compensation trusts	0	0	0	0	0	0	6,041	6,041	
Common stock issued to savings and pension plan trusts	202,291	2	2,678	0	0	0	0	2,680	
Sale of common stock under stock options	3,180,829	31	50,984	0	0	0	0	51,015	
<b>Balance at December 31, 2008</b>	122,634,854	\$ 1,226	\$ 1,290,381	\$ (279,403)	\$ (394,309)	\$ (112,511)	\$ (794)	\$ 504,590	
Comprehensive income (loss):									
Net income	0	0	0	0	15,708	0	0	15,708	\$ 15,708
Other comprehensive income:									
Pension and post-retirement adjustments, net of tax	0	0	0	(1,236)	0	0	0	(1,236)	(1,236)
Unrealized losses on securities, net of tax of \$319	0	0	0	1,116	0	0	0	1,116	1,116
Foreign currency translation adjustments	0	0	0	47,278	0	0	0	47,278	47,278
Total comprehensive income									\$ 62,866
Treasury stock	0	0	0	0	0	0	0	0	
Stock-based compensation	464,205	4	2,904	0	0	0	0	2,908	
Shares issued in lieu of cash for incentive compensation	592,536	6	3,644	0	0	0	0	3,650	
Common stock issued to savings and pension plan trusts	275,804	3	2,471	0	0	0	(81)	2,393	
Sale of common stock under stock options	60,000	1	651	0	0	0	0	652	
<b>Balance at December 31, 2009</b>	124,027,399	\$ 1,240	\$ 1,300,051	\$ (232,245)	\$ (378,601)	\$ (112,511)	\$ (875)	\$ 577,059	

See accompanying Notes to the Consolidated Financial Statements



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## GRAFTECH INTERNATIONAL LTD. AND SUBSIDIARIES

## CONSOLIDATED STATEMENT OF STOCKHOLDERS EQUITY (Continued)

*(Dollars in thousands, except share data)*

	Issued Shares of Common Stock	Common Stock	Additional Paid-in Capital	Accumulated Other Comprehensive Loss	Accumulated Deficit	Treasury Stock	Common Stock Held in Employee Benefit & Trust Compensation	Total Stockholders Equity	Total Comprehensive Income (Loss)
Comprehensive income (loss):									
Net income	0	0	0	0	174,660	0	0	174,660	\$ 174,660
Other comprehensive income:									
Pension and post-retirement adjustments, net of tax	0	0	0	1,288	0	0	0	1,288	1,288
Unrealized losses on securities, net of tax of \$292	0	0	0	1,065	0	0	0	1,065	1,065
Foreign currency translation adjustments	0	0	0	(5,866)	0	0	0	(5,866)	(5,866)
Total comprehensive income									\$ 171,147
Treasury stock	0	0	0	0	0	0	0	0	
Stock-based compensation	407,983	4	9,199	0	0	(1,431)	0	7,772	
Shares issued in lieu of cash for incentive compensation	0	0	0	0	0	0	0	0	
Common stock issued to savings and pension plan trusts	180,767	2	2,678	0	0	0	(108)	2,572	
Sale of common stock under stock options	447,080	5	3,892	0	0	0	0	3,897	
Shares issued in connection to our acquisition of Seadrift and C/G	23,999,968	240	467,039	0	0	0	0	467,279	
<b>Balance at December 31, 2010</b>	149,063,197	\$ 1,491	\$ 1,782,859	\$ (235,758)	\$ (203,941)	\$ (113,942)	\$ (983)	\$ 1,229,726	

See accompanying Notes to the Consolidated Financial Statements

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**GRAFTECH INTERNATIONAL LTD. AND SUBSIDIARIES**

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

*(Dollars in thousands, except as otherwise noted)*

**(1) Business and Summary of Significant Accounting Policies**

**Discussion of Business and Structure**

GrafTech International Ltd. is one of the world's largest manufacturers and providers of high quality synthetic and natural graphite and carbon based products. References herein to GTI, we, our, or us refer collectively to GrafTech International Ltd. and its subsidiaries. We have five major product categories: graphite electrodes, refractory products, needle coke products, advanced graphite materials and natural graphite, which are reported in the following segments:

*Industrial Materials* includes graphite electrodes, refractory products and related services and needle coke products, and primarily serves the steel industry.

*Engineered Solutions* includes advanced graphite materials and natural graphite products, and provides primary and specialty products for transportation, solar, oil and gas exploration, and other markets.

**Summary of Significant Accounting Policies**

The Consolidated Financial Statements include the financial statements of GrafTech International Ltd. and its wholly-owned subsidiaries. All significant intercompany transactions have been eliminated in consolidation.

***Change in Accounting Policy Regarding Pension and Other Postretirement Benefits***

In 2011, we elected to change our method of recognizing actuarial gains and losses for our defined benefit pension plans and other postretirement benefit plans. Previously, we recognized the actuarial gains and losses as a component of Stockholders' Equity on our consolidated balance sheets on an annual basis and amortized them into our operating results to the extent such gains and losses were outside of a corridor. In addition, we used a calculated market-related value of plan assets for purposes of calculating the expected return on plan assets. We have elected to immediately recognize the change in the fair value of plan assets and net actuarial gains and losses annually in the fourth quarter of each year (MTM Adjustment) and whenever a plan is remeasured (e.g. due to a significant curtailment, settlement, etc.). The remaining components of pension and other postretirement benefits expense will be recorded on a quarterly basis (On-going Pension Expense). While our historical policy of recognizing pension and other postretirement benefit expense was considered acceptable, we believe that the new policy is preferable as it eliminates the delay in recognizing gains and losses in our operating results. This change will also improve transparency in our operating results by more quickly recognizing the effects of economic and interest rate conditions on plan obligations and assets. We have applied these changes retrospectively, adjusting all prior periods.

In 2011, we also elected to change our method of accounting for certain costs included in inventory. We have elected to exclude the amount of our pension and other postretirement benefit costs applicable to inactive participants as a component of inventoriable costs. While our historical policy of including all pension and other postretirement benefit costs as components of inventoriable costs was acceptable, we believe that the new policy is preferable, as it only includes costs that are directly attributable to current inventory production. Applying this change retrospectively, in connection with the change in accounting for pension and other postretirement benefit costs, did not have a material impact on previously reported inventory and cost of sales in any prior period presented.

The impacts of all adjustments made to the financial statements are summarized below (dollars in thousands, except per share):

***Consolidated Statement of Income***

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Year Ended December 31, 2010

	Previously Reported	Revised	Effect of Change
Cost of sales	\$ 717,637	\$ 717,742	\$ 105
Research and development	12,330	12,202	(128)
Selling and administrative expenses	117,844	119,009	1,165
Income before provision for income taxes	174,707	173,565	(1,142)
(Benefit) for income taxes	(361)	(1,095)	(734)
Net income	175,068	174,660	(408)
Earnings per share of common stock-basic	1.43	1.42	(0.01)
Earnings per share of common stock-diluted	1.42	1.41	(0.01)

Year Ended December 31, 2009

	Previously Reported	Revised	Effect of Change
Cost of sales	\$ 467,939	\$ 469,397	\$ 1,458
Research and development	10,168	9,390	(778)
Selling and administrative expenses	82,325	79,929	(2,396)
Income before provision for income taxes	36,694	38,410	1,716
Provision for income taxes	24,144	22,702	(1,442)
Net income	12,550	15,708	3,158
Earnings per share of common stock-basic	0.10	0.13	0.03
Earnings per share of common stock-diluted	0.10	0.13	0.03

Year Ended December 31, 2008

	Previously Reported	Revised	Effect of Change
Cost of sales	\$ 756,802	\$ 768,013	\$ 11,211
Research and development	8,986	12,238	3,252
Selling and administrative expenses	95,757	108,443	12,686
Income before provision for income taxes	262,646	235,497	(27,149)
Provision for income taxes	62,131	51,340	(10,791)
Net income	200,515	184,157	(16,358)
Earnings per share of common stock-basic	1.80	1.65	(0.15)
Earnings per share of common stock-diluted	1.74	1.60	(0.14)

*Consolidated Balance Sheet*

At December 31, 2010

	Previously Reported	Revised	Effect of Change
Accumulated other comprehensive loss	(\$ 309,565)	(\$ 235,758)	\$ 73,807
Accumulated deficit	(130,134)	(203,941)	(73,807)

At December 31, 2009

	Previously Reported	Revised	Effect of Change
Accumulated other comprehensive loss	(\$ 305,644)	(\$ 232,245)	\$ 73,399
Accumulated deficit	(305,202)	(378,601)	(73,399)

*Consolidated Statement of Cash Flows*

Year Ended December 31, 2010

	Previously Reported	Revised	Effect of Change
Cash flow from operating activities			
Net income	\$ 175,068	\$ 174,660	(\$ 408)
Deferred income tax (benefit)	(28,260)	(29,028)	(768)
Post-retirement and pension plan changes	9,912	11,088	1,176

Year Ended December 31, 2009

	Previously Reported	Revised	Effect of Change
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Cash flow from operating activities			
Net income	\$ 12,550	\$ 15,708	\$ 3,158
Deferred income tax (benefit)	(8,846)	(11,154)	(2,308)
Post-retirement and pension plan changes	6,395	5,545	(850)

	Year Ended December 31, 2008		
	Previously Reported	Revised	Effect of Change
Cash flow from operating activities			
Net income	\$ 200,515	\$ 184,157	(\$ 16,358)
Deferred income tax provision (benefit)	3,049	(6,845)	(9,894)
Post-retirement and pension plan changes	7,034	33,286	26,252

*Consolidated Statement of Stockholders Equity*

	Year Ended December 31, 2010		
	Previously Reported	Revised	Effect of Change
<b>Accumulated Deficit</b>			
Net income	\$ 175,068	\$ 174,660	(\$ 408)
Balance at December 31, 2010	(130,134)	(203,941)	(73,807)
<b>Accumulated Other Comprehensive Loss</b>			
Pension and post-retirement adjustments	880	1,288	408
Balance at December 31, 2010	(309,565)	(235,758)	73,807
<b>Total Comprehensive Income (Loss)</b>			
Net income	175,068	174,660	(408)
Pension and post-retirement adjustments	880	1,288	408

	Year Ended December 31, 2009		
	Previously Reported	Revised	Effect of Change
<b>Accumulated Deficit</b>			
Net income	\$ 12,550	\$ 15,708	\$ 3,158
Balance at December 31, 2009	(305,202)	(378,601)	(73,399)
<b>Accumulated Other Comprehensive Loss</b>			
Pension and post-retirement adjustments	1,922	(1,236)	(3,158)
Balance at December 31, 2009	(305,644)	(232,245)	73,399
<b>Total Comprehensive Income (Loss)</b>			
Net income	12,550	15,708	3,158
Pension and post-retirement adjustments	1,922	(1,236)	(3,158)

	Year Ended December 31, 2008		
	Previously Reported	Revised	Effect of Change
<b>Accumulated Deficit</b>			
Balance at January 1, 2008	(\$ 518,267)	(\$ 578,466)	(\$ 60,199)
Net income	200,515	184,157	(16,358)
Balance at December 31, 2008	(317,752)	(394,309)	(76,557)
<b>Accumulated Other Comprehensive Loss</b>			
Balance at January 1, 2008	(278,316)	(218,117)	60,199
Pension and post-retirement adjustments	(20,216)	(3,858)	16,358
Balance at December 31, 2008	(355,960)	(279,403)	76,557
<b>Total Comprehensive Income (Loss)</b>			
Net income	200,515	184,157	(16,358)
Pension and post-retirement adjustments	(20,216)	(3,858)	16,358

*Cash Equivalents*

We consider all highly liquid financial instruments with original maturities of three months or less to be cash equivalents. Cash equivalents consist of certificates of deposit, money market funds and commercial paper. Restricted cash includes the balance of the escrow account to be returned upon completion of certain environmental remediation activities related to the sale of our Caserta, Italy facility in 2007.

*Revenue Recognition*

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Revenue from sales of our products is recognized when they meet four basic criteria (1) persuasive evidence of an arrangement exists, (2) delivery has occurred, (3) the amount is determinable and (4) collection is reasonably assured. Sales are recognized when both title and the risks and rewards of ownership are transferred to the customer or services have been rendered and fees have been earned in accordance with the contract.

Volume discounts and rebates are recorded as a reduction of revenue in conjunction with the sale of the related products. Changes to estimates are recorded when they become probable. Shipping and handling revenues billed to our customers are included in net sales and the related shipping and handling costs are included as an increase to cost of sales.

### *Earnings per Share*

The calculation of basic earnings per share is based on the weighted-average number of our common shares outstanding during the applicable period. We use the two-class method of computing earnings per share for our instruments granted in share-based payment transactions that are determined to be participating securities prior to vesting.

Diluted earnings per share recognizes the dilution that would occur if outstanding stock options, restricted stock awards, and until their redemption, convertible debentures were exercised or converted into common shares. We use the treasury stock method to compute the dilutive effect of our stock options and restricted stock awards (using the average market price for the period) and the if-converted method to calculate the dilutive effect of our previously outstanding convertible debt.

### *Inventories*

Inventories are stated at the lower of cost or market. Cost is principally determined using the first-in first-out ( FIFO ) and average cost, which approximates

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FIFO, methods. Elements of cost in inventory include raw materials, direct labor and manufacturing overhead.

***Property, Plant and Equipment***

Expenditures for property, plant and equipment are recorded at cost. Maintenance and repairs of property and equipment are expensed as incurred. Expenditures for replacements and betterments are capitalized and the replaced assets are retired. Gains and losses from the sale of property are included in cost of goods sold or other (income) expense, net. We depreciate our assets using the straight-line method over the estimated useful lives of the assets. The ranges of estimated useful lives are as follows:

	<b>Years</b>
Buildings	25-40
Land improvements	20
Machinery and equipment	5-20
Furniture and fixtures	5-10

The carrying value of fixed assets is assessed when events and circumstances indicating impairment are present. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of the assets to future undiscounted net cash flows expected to be generated by the assets. If the assets are considered to be impaired, the impairment to be recognized is measured by the amount by which the carrying amount of the assets exceeds the fair value of the assets. Assets to be disposed are reported at the lower of the carrying amount or fair value less costs to sell.

***Accounts and Notes Receivable***

Trade accounts receivable primarily arise from sales of goods to customers and distributors in the normal course of business.

***Sales of trade accounts receivable***

We sell certain trade accounts receivable to a bank under a factoring arrangement. The receivables are sold at a discount on a nonrecourse basis and we do not retain interests in the receivables sold. We also act as a servicer of the sold receivables for a fee. The servicing duties include collecting payments on receivables and remitting them to the bank. While servicing the receivables, we apply the same servicing policies and procedures that are applied to our owned accounts receivable.

***Allowance for Doubtful Accounts***

Considerable judgment is required in assessing the realizability of receivables, including the current creditworthiness of each customer, related aging of the past due balances and the facts and circumstances surrounding any non-payment. We evaluate specific accounts when we become aware of a situation where a customer may not be able to meet its financial obligations. The reserve requirements are based on the best facts available to us and are reevaluated and adjusted as additional information is received. Receivables are charged off when amounts are determined to be uncollectible.

***Capitalized Bank Fees***

We capitalize bank fees upon the incurrence of debt. At December 31, 2009 and December 31, 2010, capitalized bank fees amounted to \$1.0 million and \$3.6 million, respectively. We amortize such amounts over the life of the respective debt instrument using the effective interest method. The estimated life may be adjusted upon the occurrence of a triggering event. Amortization of capitalized bank fees amounted to \$7.9 million in 2008, \$1.6 million in 2009, and \$1.8 million in 2010, respectively and is included in interest expense. Interest expense for 2008 and 2009, includes accelerated amortization of capitalized bank fees related to the Senior Notes redeemed in each of those years.

***Derivative Financial Instruments***

We do not use derivative financial instruments for trading purposes. They are used to manage well-defined commercial risks associated with energy contracts and currency exchange rate risks.

***Foreign Currency Derivatives***

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We enter into foreign currency derivatives from time to time to manage exposure to changes in currency exchange rates. These instruments, which include, but are not limited to, forward exchange contracts and purchased currency options, attempt to hedge global currency exposures, relating to non-dollar denominated debt and identifiable foreign currency receivables, payables and commitments held by our foreign and

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domestic subsidiaries. Forward exchange contracts are agreements to exchange different currencies at a specified future date and at a specified rate. Purchased foreign currency options are instruments which give the holder the right, but not the obligation, to exchange different currencies at a specified rate at a specified date or over a range of specified dates. The result is the creation of a range in which a best and worst price is defined, while minimizing option cost. Forward exchange contracts and purchased currency options are carried at fair value. These contracts are treated as hedges to the extent they are effective. Changes in fair values related to these contracts are recognized in other comprehensive income in the Consolidated Balance Sheets until settlement. At the time of settlement, realized gains and losses are recognized as part of cost of goods sold on the Consolidated Statements of Income.

### ***Commodity Derivative Contracts***

We periodically enter into derivative contracts for natural gas and certain refined oil products. These contracts are entered into to protect against the risk that eventual cash flows related to these products will be adversely affected by future changes in prices. All commodity contracts are carried at fair value and are treated as hedges to the extent they are effective. Changes in their fair values are included in other comprehensive income in the Consolidated Balance Sheets until settlement. At the time of settlement of these hedge contracts, realized gains and losses are recognized as part of cost of goods sold on the Consolidated Statements of Income.

### ***Investments in Non-Consolidated Affiliates***

We use the equity method to account for investments in entities that we do not control, but where we have the ability to exercise significant influence. Equity method investments are recorded at original cost and adjusted periodically to recognize (1) our proportionate share of the investees' net income or losses after the date of investment, (2) additional contributions made and dividends or distributions received, and (3) impairment losses resulting from adjustments to net realizable value.

We assess the potential impairment of our equity method investments when indicators such as a history of operating losses, a negative earnings and cash flow outlook, and the financial condition and prospects for the investee's business segment might indicate a loss in value. We determine fair value based on valuation methodologies, as appropriate, including the present value of our estimated future cash flows. If the fair value is less than our carrying amount, the investment is determined to be impaired. If the decline in value is other than temporary, we record an appropriate write-down.

### ***Research and Development***

Expenditures relating to the development of new products and processes, including significant improvements to existing products, are expensed as incurred.

### ***Income Taxes***

We file a consolidated United States ( U.S. ) federal income tax return for GTI and its eligible domestic subsidiaries. Our non-U.S. subsidiaries file income tax returns in their respective local jurisdictions. We account for income taxes under the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to temporary differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases and tax benefit carry forwards. Deferred tax assets and liabilities at the end of each period are determined using enacted tax rates. A valuation allowance is established or maintained, when, based on currently available information and other factors, it is more likely than not that all or a portion of a deferred tax asset will not be realized.

Under the guidance on accounting for uncertainty in income taxes, we recognize the benefit from an uncertain tax position only if it is more likely than not that the tax position will be sustained on examination by taxing authorities, based on the technical merits of the position. The tax benefits recognized in the financial statements from such a position are measured based on the largest benefit that has a greater than fifty percent likelihood of being realized upon ultimate settlement. The guidance on accounting for uncertainty in income taxes also provides guidance on derecognition, classification, interest and penalties on income taxes, and accounting in interim periods.

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### ***Stock-Based Compensation Plans***

We have various plans that provide for the granting of stock-based compensation to employees and, in certain instances, to non-employee directors, which are described more fully in Note 13, Management Compensation and Incentive Plans. Shares are issued upon option exercise from authorized, unissued shares.

We account for those plans under the applicable standards on accounting for share-based payment. For transactions in which we obtain employee services in exchange for an award of equity instruments, we measure the cost of the services based on the grant date fair value of the award. We recognize the cost over the period during which an employee is required to provide services in exchange for the award, known as the requisite service period (usually the vesting period). Costs related to plans with graded vesting are generally recognized using a straight-line method. Cash flows resulting from tax benefits for deductions in excess of compensation cost recognized are included in financing cash flows.

### ***Retirement Plans***

We use actuarial methods and assumptions to account for our defined benefit pension plan and our post retirement benefits. Pension and postretirement benefits expense includes the MTM Adjustment, actuarially computed cost of benefits earned during the current service period, the interest cost on accrued obligations, the expected return on plan assets based on fair market values, and adjustments due to plan settlements and curtailments. Contributions to the qualified U.S. retirement plan are made in accordance with the requirements of the Employee Retirement Income Security Act of 1974.

### ***Postretirement Benefits***

Postretirement benefits and benefits under the non-qualified retirement plan have been accrued, but not funded. The estimated cost of future postretirement life insurance benefits is determined by the Company with assistance from independent actuarial firms using the projected unit credit actuarial cost method. Such costs are recognized as employees render the service necessary to earn the postretirement benefits. Benefits have been accrued, but not funded. We record our balance sheet position based on the funded status of the plan. Additional information with respect to benefits plans is set forth in Note 12, Retirement Plans and Postretirement Benefits.

### ***Environmental, Health and Safety Matters***

Our operations are governed by laws addressing protection of the environment and worker safety and health. These laws provide for civil and criminal penalties and fines, as well as injunctive and remedial relief, for noncompliance and require remediation at sites where hazardous substances have been released into the environment.

We have been in the past, and may become in the future, the subject of formal or informal enforcement actions or proceedings regarding noncompliance with these laws or the remediation of company-related substances released into the environment. Historically, such matters have been resolved by negotiation with regulatory authorities resulting in commitments to compliance, abatement or remediation programs and in some cases payment of penalties. Historically, neither the commitments undertaken nor the penalties imposed on us have been material.

Environmental considerations are part of all significant capital expenditure decisions. Environmental remediation, compliance and management expenses were approximately \$17.3 million in 2008, \$9.2 million in 2009, and \$12.5 million in 2010. The accrued liability relating to environmental remediation was \$9.1 million at December 31, 2009 and \$10.8 million at December 31, 2010. A charge to income is recorded when it is probable that a liability has been incurred and the cost can be reasonably estimated. When payments are fixed or determinable, the liability is discounted using a rate at which the payments could be effectively settled.

Our environmental liabilities do not take into consideration possible recoveries of insurance proceeds. Because of the uncertainties associated with environmental remediation activities at sites where we may be potentially liable, future expenses to remediate sites could be considerably higher than the accrued liability.

**Table of Contents*****Foreign Currency Translation***

We translate the financial statements of foreign subsidiaries, whose local currency is their functional currency, to U.S. dollars using period-end exchange rates for assets and liabilities and weighted average exchange rates for each period for revenues, expenses, gains and losses. Differences arising from exchange rate changes are included in accumulated other comprehensive loss on the Consolidated Balance Sheets until such time as the operations of such non-U.S. subsidiaries are sold or substantially or completely liquidated.

For our Mexican and Russian subsidiaries whose functional currency is the U.S. dollar, we remeasure non-monetary balance sheet accounts and the related income statement accounts at historical exchange rates. Resulting gains and losses arising from the fluctuations in currency for monetary accounts are recognized in other (income) expense, net, in the Consolidated Statements of Income. Gains and losses arising from fluctuations in currency exchange rates on transactions denominated in currencies other than the functional currency are recognized in earnings as incurred.

We have non-dollar denominated intercompany loans between GrafTech Finance and some of our foreign subsidiaries. These loans are subject to remeasurement gains and losses due to changes in currency exchange rates. Certain of these loans had been deemed to be essentially permanent prior to settlement and, as a result, remeasurement gains and losses on these loans were recorded as a component of accumulated other comprehensive loss in the stockholders' equity section of the Consolidated Balance Sheets. The remaining loans are deemed to be temporary and, as a result, remeasurement gains and losses on these loans are recorded as currency (gains/losses) in other (income) expense, net, on the Consolidated Statements of Income.

***Software Development Costs***

In connection with our development and implementation of global enterprise resource planning systems with advanced manufacturing, planning and scheduling software, we capitalize certain computer software costs after technological feasibility is established. These capitalized costs are amortized utilizing the straight-line method over the economic lives of the related products. Total costs capitalized as of December 31, 2009 and 2010 amounted to \$14.7 million and \$15.6 million, respectively. Amortization expense was \$1.6 million for 2008, 2009 and 2010.

***Restructuring***

We recognize an accrual for costs associated with exit or disposal activities when the liability is incurred.

***Goodwill and Other Intangible Assets***

Goodwill is the excess of the acquisition cost of businesses over the fair value of the identifiable net assets acquired. We do not recognize deferred income taxes for the difference between the assigned value and the tax basis related to nondeductible goodwill. Goodwill is not amortized; however, impairment testing is performed annually or more frequently if circumstances indicate that impairment may have occurred. We perform the goodwill impairment test annually at December 31. The impairment test for goodwill uses a two-step approach, which is performed at the reporting unit level. Step one compares the fair value of the reporting unit (using a discounted cash flow method) to its carrying value. If the carrying value exceeds the fair value, there is potential impairment and step two must be performed. Step two compares the carrying value of the reporting unit's goodwill to implied fair value (i.e., fair value of the reporting unit less the fair value of the unit's assets and liabilities, including identifiable intangible assets). If the fair value of goodwill is less than the carrying amount of goodwill, an impairment is recognized.

Other amortizable intangible assets, which consist primarily of patents, trademarks and trade names, customer-related intangibles, and technological know-how, are amortized over their estimated useful lives using the straight line or sum-of-the-years digits method. The estimated useful lives for each major category of amortizable intangible assets are:

	<b>Years</b>
Patents	20
Trade name	5-10
Technology and know-how	5-9
Customer related intangible	11-14

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Additional information about goodwill and other intangible is set forth in Note 5 *Goodwill and Other Intangible Assets*.

### ***Use of Estimates***

The preparation of financial statements in conformity with U.S. generally accepted accounting principles ( GAAP ) requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent liabilities at the date of the Consolidated Financial Statements and the reported amounts of revenue and expenses. Significant estimates and assumptions are used for, but are not limited to, pension and other post-retirement benefits, allowance for doubtful accounts, accruals and valuation allowances, asset impairment, and environmental-related accruals. Actual results could differ from our estimates.

### ***Subsequent Events***

We evaluate events that occur after the balance sheet date but before financial statements are issued to determine if a material event requires our amending the financial statements or disclosing the event.

### ***Reclassification***

Certain amounts previously reported have been reclassified to conform to the current year presentation.

## **New Accounting Standards**

### ***Recently Adopted Accounting Standards***

#### ***Consolidation***

In June 2009, the FASB issued new guidance regarding the consolidation of variable interest entities ( VIEs ). We are now required to qualitatively assess the determination of our being the primary beneficiary ( consolidator ) of a VIE on whether we (1) have the power to direct matters that most significantly impact the activities of the VIE, and (2) have the obligation to absorb losses or the right to receive benefits of the VIE that could potentially be significant to the VIE. It also requires an ongoing reconsideration of the primary beneficiary and amends events that trigger a reassessment of whether an entity is a VIE. The guidance also enhances disclosures about an enterprise's involvement with a VIE. The new model is applicable to all new and existing VIE's. The adoption of this new guidance on January 1, 2010 had no impact on our consolidated financial position or results of operations.

#### ***Transfers of Financial Assets***

In June 2009 the FASB issued new guidance on accounting for transfers of financial assets. The new guidance clarifies the determination of whether a transfer of a financial asset qualifies for sale accounting. It also provides four broad disclosure objectives designed to provide users of the financial statements with an understanding of:

1. The transferor's continuing involvement with the transferred assets.
2. The nature of any restrictions on the transferor's assets that relate to a transferred financial asset, including the carrying amount of those assets.
3. How servicing assets and servicing liabilities are reported by the transferor.
4. How a transfer of financial assets affects the company's balance sheet, earnings, and cash flows.

The adoption of this new guidance on January 1, 2010 had no impact on our consolidated financial position or results of operations.

*Recently Issued Accounting Standards*

Accounting guidance issued by various standard setting and governmental authorities that have not yet become effective with respect to our Consolidated Financial Statements are described below, together with our assessment of the potential impact they may have on our results of operation and financial position.

*Fair Value Measurements and Disclosure*

In January 2010, the FASB issued new guidance regarding disclosures about fair value measurements. The guidance requires new disclosures related to activity in Level 3 fair value measurements. This guidance requires purchases, sales, issuances, and settlements to be presented separately in the roll forward of activity in Level 3 fair value measurements (see Note 7 Fair Value Measurements and Derivative Instruments ).

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We are required to adopt this guidance for fiscal years beginning after December 15, 2010, and for interim periods within those fiscal years. We are currently assessing its impact on our Consolidated Financial Statements.

*Revenue Recognition*

In October 2009, the FASB issued new guidance regarding revenue arrangements with multiple deliverables. This new guidance requires companies to allocate revenue in arrangements involving multiple deliverables based on the estimated selling price of each deliverable, even though such deliverables are not sold separately by the company or by other vendors. This new guidance is effective prospectively for revenue arrangements entered into or materially modified in fiscal years beginning on or after June 15, 2010; however, early adoption is permitted. If a company elects early adoption and the period of adoption is not the beginning of its fiscal year, the requirements must be applied retrospectively to the beginning of the fiscal year. Retrospective application to prior years is permitted, but not required. We are evaluating the potential impact on our Consolidated Financial Statements.

**(2) Acquisitions**

On November 30, 2010, we acquired from the equity holders of Seadrift Coke L.P. ( Seadrift ) 81.1% of the equity interests of Seadrift that we did not already own and from the equity holders of C/G Electrodes LLC ( C/G ) 100% of the equity interests of C/G. Because Seadrift and C/G meet the SEC definition of common control, we have treated the transactions as the acquisition of one business and are referred to collectively as the Acquisitions. Seadrift and C/G are included in our Consolidated Financial Statements beginning as of December 1, 2010.

Seadrift is one of the largest producers of petroleum-based needle coke in the world and owns the world's only known stand-alone petroleum-based needle coke plant. Needle coke is the key raw material used to make graphite electrodes, including premium UHP graphite electrodes, which are critical consumables in electric arc furnace ( EAF ) steel production. The acquisition of Seadrift helps to assure us of a stable supply for a majority of the primary raw material in the production of graphite electrodes and should allow us to reduce the relative cost of a significant portion of our supply of needle coke.

C/G is a U.S.-based producer of large diameter premium UHP graphite electrodes used in the EAF steel making process. C/G also sells various other graphite-related products, including specialty graphite blocks, granular graphite and partially processed electrodes. The acquisition of C/G provides us with a large diameter graphite electrode manufacturing facility in the U.S. which will allow us to respond to customer orders more quickly and reduce freight cost and transit time for North American shipments.

*Consideration transferred:* The consideration paid to the equity holders of Seadrift consisted of \$90.0 million in cash (including working capital adjustments), approximately 12 million shares of GTI common stock and \$100 million in aggregate face amount Senior Subordinated Notes of GTI due 2015. The consideration paid to the equity holders of C/G consisted of \$159.5 million in cash (including working capital adjustments), approximately 12 million shares of GTI common stock and \$100 million in aggregate face amount of Senior Subordinated Notes of GTI due in 2015.

The computation of the fair value of the total consideration at the date of acquisition follows (in thousands, except share price):

GTI common shares issued	24,000
Price per share of GTI common stock	\$ 19.47
Fair value of consideration attributable to common stock	\$ 467,280
Fair value of Senior Subordinated Notes	142,597
Cash	249,444
Total consideration paid to equity holders	859,321
Fair value of our previously held 18.9% equity interest in Seadrift	77,342
Total consideration	\$ 936,663

The volume weighted average price of a share of GTI common stock on November 30, 2010 was used to determine the fair value of the stock issued as consideration in connection with the Acquisitions. The fair



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value of the non-interest bearing senior subordinated notes was determined using an interest rate of 7%.

*Recording of assets acquired and liabilities assumed:* The Acquisitions are accounted for using the acquisition method of accounting in accordance with FASB ASC 805, *Business Combinations* ( ASC 805 ). Under the acquisition method the identifiable assets acquired and the liabilities assumed are assigned a new basis of accounting reflecting their estimated fair values. The information included herein has been prepared based on the preliminary allocation of purchase price using estimates of the fair values and useful lives of assets acquired and liabilities assumed based on best available information determined with the assistance of independent valuations, quoted market prices and management estimates. The purchase price allocations are subject to further adjustment until all pertinent information regarding the property, plant and equipment, intangible assets, other long-term assets, goodwill, long-term debt, other long-term liabilities, and deferred income tax liabilities are fully evaluated by us and independent valuations are complete.

The following table summarizes the fair values of the identifiable assets acquired and liabilities assumed at the acquisition date (in thousands):

Cash	\$	8,240
Accounts receivable		23,079
Inventories		82,665
Property, plant and equipment		280,710
Intangible assets		158,200