

CALGON CARBON CORPORATION
Form 10-K
March 13, 2009

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-K

(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, 2008 or

Transition Report Pursuant to Section 12 or 15(d) of the Securities Exchange Act of 1934.
For the transition period from to .

Commission file number 1-10776

Calgon Carbon Corporation
(Exact name of registrant as specified in its charter)

Delaware 25-0530110
(State or other jurisdiction of (I.R.S. Employer
incorporation or organization) Identification No.)

400 Calgon Carbon Drive
Pittsburgh, Pennsylvania 15205
(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (412) 787-6700

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

| Title of each class | Name of each exchange on which registered |
|--|---|
| Common Stock, par value \$0.01 per share | New York Stock Exchange |

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

None
(Title of class)

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 Exchange 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

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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.

Yes No

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

Large accelerated filer Accelerated filer Non-accelerated filer

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes No

As of March 10, 2009, there were outstanding 54,469,234 shares of Common Stock, par value of \$0.01 per share.

The aggregate market value of the voting stock held by non-affiliates as of June 30, 2008 was \$609,531,907.

The following documents have been incorporated by reference:

| Document | Form 10-K Part Number |
|---|--------------------------|
| Proxy Statement filed pursuant to Regulation 14A in connection with registrant's Annual Meeting of Shareholders to be held on April 30, 2009. | III |

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Forward-Looking Information Safe Harbor

This Annual Report contains historical information and forward-looking statements. Forward-looking statements typically contain words such as “expect,” “believes,” “estimates,” “anticipates,” or similar words indicating that future outcomes are uncertain. Statements looking forward in time, including statements regarding future growth and profitability, price increases, cost savings, broader product lines, enhanced competitive posture and acquisitions, are included in this Annual Report pursuant to the “safe harbor” provision of the Private Securities Litigation Reform Act of 1995. They involve known and unknown risks and uncertainties that may cause the Company’s actual results in future periods to be materially different from any future performance suggested herein. Further, the Company operates in an industry sector where securities values may be volatile and may be influenced by economic and other factors beyond the Company’s control. Some of the factors that could affect future performance of the Company are higher energy and raw material costs, costs of imports and related tariffs, labor relations, capital and environmental requirements, changes in foreign currency exchange rates, borrowing restrictions, validity of patents and other intellectual property, and pension costs. In the context of the forward-looking information provided in this Annual Report, please refer to the discussions of risk factors and other information detailed in, as well as the other information contained in this Annual Report.

PART I

Item 1. Business:

The Company:

The Company is a global leader in services, products, and solutions for purifying water and air. The Company has three reportable segments: Activated Carbon and Service, Equipment, and Consumer. These reportable segments are composed of global profit centers that make and sell different products and services.

The Activated Carbon and Service segment manufactures granular and powdered activated carbon for use in applications to remove organic compounds from water, air, and other liquids and gases. The service aspect of the segment consists of the leasing, monitoring and maintenance of carbon adsorption equipment (explained below). The Equipment segment provides solutions to customers' air and water purification problems through the design, fabrication, and operation of systems that utilize a combination of the Company's enabling technologies: carbon adsorption, ultraviolet light ("UV") and advanced ion exchange separation ("ISEP®") among others. The Consumer segment primarily consists of the manufacture and sale of carbon cloth and new consumer products based on the Company's technologies already proven in large-scale industrial applications.

Discontinued Operations:

On February 17, 2006, the Company, through its wholly owned subsidiary Chemviron Carbon GmbH, executed an agreement (the "Charcoal Sale Agreement") with proFagus GmbH, proFagus Grundstuecksverwaltungs GmbH and proFagus Beteiligungen GmbH (as Guarantor) to sell, and sold, substantially all the assets, real estate, and specified liabilities of the Bodenfelde, Germany facility (the "Charcoal/Liquid business"). The aggregate sales price, based on an exchange rate of 1.19 Dollars per Euro, consisted of \$20.4 million of cash, which included a final working capital adjustment of \$1.3 million. The Company provided guarantees to the buyer related to pre-divestiture tax liabilities, future environmental remediation costs related to pre-divestiture activities and other contingencies. Management believes the ultimate cost of such guarantees is not material. An additional 4.25 million Euro could have been received dependent upon the business meeting certain earnings targets over the next three years. In May 2008, the Company reached a final agreement with proFagus GmbH, proFagus Grundstuecksverwaltungs GmbH and proFagus Beteiligungen GmbH (as Guarantor) regarding the aforementioned additional 4.25 million Euro contingent consideration, fixing the amount to be paid to the Company at 2.8 million Euro. The Company expects to receive this payment in December 2011. The unpaid balance earns interest at 7% which is paid annually. The Company had presented the Charcoal/Liquid business as a discontinued operation for the periods that were impacted and has recorded a pre-tax gain of \$4.8 million or \$1.7 million, net of tax, on the sale during the year ended December 31, 2006. The Company recorded the additional contingent consideration as an additional pre-tax gain on sale of \$4.4 million or \$2.8 million, net of tax, within discontinued operations during the period ended December 31, 2008.

On April 24, 2006, the Company completed the sale of the assets of its Solvent Recovery business to MEGTEC Systems, Inc. ("MEGTEC"), a subsidiary of Sequa Corporation. The Solvent Recovery unit provided turnkey on-site regenerable solvent recovery systems, distillation systems, on-site regenerable volatile organic compound concentrators, vapor-phase biological oxidation systems, and related services on a worldwide basis. The sale price of \$1.8 million included cash proceeds of approximately \$0.8 million and \$0.7 million of assumed liabilities, primarily accounts payable. The transaction was also subject to a pre-tax working capital adjustment of \$0.4 million, which management finalized and recorded in the fourth quarter of 2006. For the year ended December 31, 2007, the Company recorded a loss of \$0.2 million, net of tax, related to an indemnity claim. During the year ended December 31, 2006, the Company recorded a pre-tax gain of \$63 thousand or \$41 thousand, net of tax, on the sale of the Solvent Recovery business.

For further information, see Note 3 to the Financial Statements.

Products and Services:

The Company offers a diverse range of products, services, and equipment specifically developed for the purification, separation and concentration of liquids, gases and other media through its three business segments. The Activated Carbon and Service segment primarily consists of activated carbon products, field services, and reactivation. The Equipment segment designs and builds systems that include multiple technologies. The Consumer segment supplies carbon products, including activated carbon cloth, for everyday use by consumers. Activated carbon cloth is used in many filtration, adsorption, and separation applications for use in such markets such as industrial and medical.

Activated Carbon and Service. The sale of activated carbon is the principle component of the Activated Carbon and Service business segment. Activated carbon is a porous material that removes organic compounds from liquids and gases by a process known as "adsorption." In adsorption, organic molecules contained in a liquid or gas are attracted and bound to the surface of the pores of the activated carbon as the liquid or gas is passed through.

The primary raw material used in the production of the Company's activated carbons is bituminous coal which is crushed, sized and then processed in low temperature bakers followed by high temperature furnaces. This heating process is known as "activation" and develops the pore structure of the carbon. Through adjustments in the activation process, pores of the required size for a particular purification application are developed. The Company's technological expertise in adjusting the pore structure in the activation process has been one of a number of factors enabling the Company to develop many special types of activated carbon available in several particles sizes. The Company also markets activated carbons from other raw materials, including coconut and wood.

The Company produces and sells a broad range of activated, impregnated or acid washed carbons in granular, powdered or pellet form. Granular Activated Carbon (GAC) particles are irregular in shape and generally used in fixed filter beds for continuous flow purification processes. Powdered Activated Carbon (PAC) is carbon which has been pulverized into powder and often used in batch purification processes, in municipal water applications and for flue gas emissions control. Pelletized activated carbons are extruded particles, cylindrical in shape, and typically used for gas phase applications due to the low pressure drop, high mechanical strength and low dust content of the product.

Another important component of the Activated Carbon and Service business segment are the optional services associated with supplying the Company's products and systems required for purification, separation, concentration, taste and odor control. The Company offers a variety of treatment services at customer facilities including carbon supply, equipment leasing, installation and demobilization, transportation, and spent carbon reactivation. Other services include feasibility testing, process design, performance monitoring, and major maintenance of Company-owned equipment. The central component of the Company's service business is reactivation of spent carbon and re-supply. In the reactivation process, the spent carbon is subjected to high temperature re-manufacturing conditions that destroy the adsorbed organics and assure the activated carbon is returned to usable quality. The Company is fully permitted to handle spent carbons containing hazardous and non-hazardous organic compounds (see related discussion in Regulatory Matters). This recycling is conducted at several locations throughout the world. Granular activated carbon is reactivated for environmental and economic reasons to destroy hazardous adsorbed organic compounds and also to conserve natural resources. The Company provides reactivation/recycling services in packages ranging from a fifty-five gallon drum to truckload quantities.

Transportation services are offered via bulk activated carbon deliveries and spent carbon returns through the Company's private fleet of trailers, capable of transporting both RCRA hazardous and non-hazardous material. The Company will arrange transportation for smaller volumes of activated carbon in DOT approved containers and small returnable equipment through a network of less-than-truckload carriers.

Purification services provided by the Company are used to improve the quality of water, food, chemical, pharmaceutical and petrochemical products. These services may be utilized in permanent installations or in temporary applications, such as pilot studies for new manufacturing processes or recovery of off-specification products.

Sales from continuing operations for the Activated Carbon and Service segment were \$342.3 million, \$295.6 million, and \$265.3 million for the years ended December 31, 2008, 2007, and 2006, respectively.

Equipment. Along with providing activated carbons, the Company has developed a complete line of standardized, pre-engineered, adsorption systems – capable of treating liquid flows from 1 gpm to 1,400 gpm – which can be quickly delivered and easily installed at treatment sites. These self-contained adsorption systems are used for vapor phase applications such as volatile organic compound (VOC) control, air stripper off-gases, and landfill gas emissions. Liquid phase equipment systems are used for applications of process purification, wastewater treatment, groundwater remediation and de-chlorination. The Company also custom designs systems to solve unique treatment challenges, providing equipment for activated carbon, ion exchange resins or ultraviolet (UV) technologies each of which can be used for the purification, separation and concentration of liquids or gases.

More than 20 years ago, the Company introduced an advanced UV oxidation process to remediate contaminated groundwater. In 1998, the Company's scientists invented a UV disinfection process that could be used to inactivate *Cryptosporidium*, *Giardia* and other similar pathogens in surface water, rendering them harmless to humans (refer to Note 17). The UV light alters the DNA of pathogens, killing them or making it impossible for the pathogens to reproduce and infect humans. In combination with hydrogen peroxide, UV light is effective in destroying many contaminants common in groundwater remediation applications. The Company is a leader in the marketplace for innovative UV technologies with the Sentinel® line designed to protect municipal drinking water supplies from pathogens, the C3 Series™ open-channel wastewater disinfection product line for municipal wastewater disinfection, and Rayox® UV advanced oxidation equipment for treatment of contaminants such as 1,4-Dioxane, MTBE, and Vinyl Chloride in groundwater, process water and industrial wastewater.

The Company also produces a wide range of odor control equipment which typically utilizes catalytic, activated carbon to control odors at municipal wastewater treatment facilities and pumping stations.

UV oxidation equipment can also be combined with activated carbon to provide effective solutions for taste and odor removal in municipal drinking water. Backed by years of experience and extensive research and development, the Company can recommend the best solution for taste and odor problems, whether it's using activated carbon, UV oxidation, or both. The Company also offers a low cost, non-chemical solution for quenching excess peroxide after our advanced oxidation processes.

The proprietary ISEP® (Ionic Separator) continuous ion exchange units are used for the purification and recovery of many products in the food, pharmaceutical, and biotechnology industries. These ISEP® Continuous Separator units perform ion exchange separations using countercurrent processing. The ISEP® and CSEP® (chromatographic separator) systems are currently used at over 300 installations worldwide in more than 40 applications in industrial settings, as well as in selected environmental applications including perchlorate and nitrate removal from drinking water.

Sales from continuing operations for the Equipment segment were \$47.3 million, \$41.3 million, and \$37.9 million for the years ended December 31, 2008, 2007, and 2006, respectively.

Consumer. The primary product offered in the Consumer segment is carbon cloth. Carbon cloth, which is activated carbon in cloth form, is manufactured in the United Kingdom and sold to the medical and specialty markets.

Activated carbon and carbon cloth are used as the primary raw material in the Company's consumer home products group. The Company currently has two primary product lines that it markets to the retail channel. The first product line, PreZerve® storage products, uses carbon cloth to protect and preserve jewelry and keepsakes from deterioration. The PreZerve® line currently offers over 40 different items. The second product line, AllGone®, is an odor elimination system that utilizes activated carbon discs to adsorb odors and impurities from the air safely and naturally.

Sales from continuing operations for the Consumer segment were \$10.7 million, \$14.2 million, and \$13.0 million for the years ended December 31, 2008, 2007, and 2006, respectively.

For further information, see Note 19 to the Financial Statements.

Markets:

The Company participates in six primary areas: Potable Water, Industrial Process, Environmental Water, Environmental Air, Food, and Specialty Markets. Potable Water applications include municipal drinking water purification as well as point of entry and point of use devices. Applications in the Industrial Process Market includes catalysis, product recovery and purification of chemicals, and pharmaceuticals as well as process water treatment. Remediation of water and VOC removal from vapor are the major sub segments for the two Environmental markets. Food applications include brewing, bottling and sweetener purification. Medical, personal protection, cigarette, automotive, consumer and precious metals applications comprise the Specialty Market.

Potable Water Market. The Company sells activated carbons, equipment, services, ion exchange technology, and UV technologies to municipalities for the treatment of potable water to remove pesticides and other dissolved organic and inorganic material to meet or exceed current state or federal regulations and to remove tastes and odors to make the water acceptable to the public. The Company also sells to OEM manufacturers of home water purification systems. Granular and powdered activated carbon products are sold in this market and in many cases the granular carbon functions both as the primary filtration media as well as an adsorption media to remove the contaminants from the water. Ion exchange resins are sold in both fixed beds and continuous counter-current operations to meet strict regulatory guidelines for perchlorate in water. UV oxidation and disinfection systems are sold for the destruction or inactivation of waterborne contaminants and organisms.

Industrial Process Market. The Company's products used in industrial processing are used either for purification, separation or concentration of customers' products in the manufacturing process or for direct incorporation into the customers' products. The Company sells a wide range of activated carbons and reactivation services to the chemical, petroleum refining, and process industries for the purification of organic and inorganic chemicals, amine, soda ash, antibiotics and vitamins. Activated carbon products and services are also used to decolorize chemicals such as hydrochloric acid and remove pollutants from wastewater. Further, activated carbon is used in treatment of natural gas, flue gas and other vapor streams for removal of carbon dioxide, acetylene, hydrogen, sulfur and mercury compounds. The liquefied natural gas industry uses activated carbons to remove mercury compounds which would otherwise corrode process equipment. Activated carbons are also sold for gasoline vapor recovery equipment.

Environmental Water and Air Markets. Providing products used for the cleanup of contaminated groundwater, surface impoundments and accidental spills comprises the significant need in this market. The Company provides carbon, services and carbon equipment for these applications as well as emergency and temporary cleanup services for public and private entities, utilizing both activated carbon adsorption and UV oxidation technologies.

The Company offers its products and services to private industry to meet stringent environmental requirements imposed by various government entities. The Company's reactivation/recycle service is an especially important element if the customer has contaminants which are hazardous organic chemicals. The hazardous organic chemicals which are adsorbed by the activated carbons are decomposed at the high temperatures of the reactivation furnace and thereby removed from the environment. Reactivation saves the environment as well as eliminating the customers' expense and difficulty in securing long-term containment (such as landfills) for hazardous organic chemicals.

Activated carbon is also used in the chemical, pharmaceutical and refining industries for purification of air discharge to remove contaminants such as benzene, toluene and other volatile organics. Reduction of mercury emissions from coal-fired power plants is a growing market for the Company. The re-start of B-line at its Catlettsburg, Kentucky plant to produce up to 70 million pounds of FLUEPAC® powdered activated carbon represents major progress in a multi-step program that would enable the Company to provide a substantial amount of powdered activated carbon to coal-fired power plants.

Municipal sewage treatment plants purchase the Company's odor control systems and activated carbon products to remove objectionable odors emanating from operational facilities and to treat the wastewater to meet discharge requirements. Granular activated carbon is used as a filtration/adsorption medium and the powdered activated carbons are used to enhance the performance of existing biological waste treatment processes.

The Company's UV oxidation systems offer an ideal solution for groundwater remediation and the treatment of process water and industrial wastewater. The Company's Rayox® System is an industry staple for the destruction of organic compounds in groundwater. Rayox® is also used as a process water and wastewater treatment option for the removal of alcohol, phenol, acetone, TOC and COD/BOD.

Food Market. Sweetener manufacturers are the principal purchasers of the Company's products in the food industry. As a major supplier, the Company's specialty acid-washed activated carbon products are used in the purification of dextrose and high fructose corn syrup. Activated carbons are also sold for use in the purification of cane sugar. Other food processing applications include de-colorization and purification of many different foods and beverages and for purifying water, liquids and gases prior to usage in brewing and bottling. Continuous ion exchange systems are also used in this market for the production of lysine and vitamin E as well as purification of dextrose and high fructose corn syrup.

Specialty Market. The Company is a major supplier of activated carbon to manufacturers of gas masks supplied to the United States and European military as well as protective respirators and collective filters for first responders and private industry. The markets for collective filters for military equipment, indoor air quality and air containment in incineration and nuclear applications are also serviced.

Other specialty applications using activated carbons include precious metals producers to recover gold and silver from low-grade ore, and cigarette manufacturers in charcoal filters. The Company's activated carbon cloth product is used in medical and other specialty applications.

Sales and Marketing:

The Company has a direct sales force in the United States with offices located in Pittsburgh, Pennsylvania; Santa Fe Springs, California; and Marlton, New Jersey. The Company conducts activated carbon related sales in Canada and in Latin America through agent/distributor relationships and maintains offices in Sao Paulo, Brazil and Mexico City, Mexico. In the Asia Pacific Region, the Company maintains offices in Singapore; Beijing and Shanghai, China; Taipei, Taiwan; and Tokyo, Japan (a joint venture relationship) through agents and distributors to manage sales.

In Europe, the Company has sales offices in Feluy, Belgium; Ashton-in-Makerfield, United Kingdom; Houghton le-Spring, United Kingdom; and Beverungen, Germany. The Company also has a network of agents and distributors that conduct sales in certain countries in Europe, the Middle East and Africa.

All offices can play a role in sales of products or services from any of the Company's segments.

Geographic sales information can be found in Note 19 to the Financial Statements. Over the past three years, no single customer accounted for more than 10% of the total sales of the Company in any year.

Backlog:

The Company had a sales backlog from continuing operations of \$22.3 million and \$11.8 million as of January 31, 2009 and 2008, respectively, in the Equipment segment. The Company expects to carry less than one-third of the 2009 balance into 2010.

Competition:

The Company is a major global presence with several competitors in the worldwide market with respect to the production and sale of activated carbon-related products: Norit, N.V., a Dutch company, Mead/Westvaco Corporation, a United States company and Siemens Water Technologies, a division of Siemens AG, Erlangen, Germany, are the primary competitors. Chinese producers of coal-based activated carbon and certain East Asian producers of coconut-based activated carbon participate in the market on a worldwide basis and sell principally through numerous resellers. Competition in activated carbons, carbon equipment and services is based on quality, performance and price. Other sources of competition for the Company's activated carbon services and systems are alternative technologies for purification, filtration and extraction processes that do not employ activated carbons.

A number of other smaller competitors engage in the production and sale of activated carbons in local markets, but do not compete with the Company on a global basis. These companies compete with the Company in the sale of specific types of activated carbons, but do not generally compete with a broad range of products in the worldwide activated carbon business.

In the United States and Europe, the Company competes with several small regional companies for the sale of its reactivation services and carbon equipment.

The Company's UV technologies product line has primary competition from Trojan Technologies, Inc., a Canadian company owned by Danaher Corporation, a United States company, and Wedeco Ideal Horizons, a German company owned by ITT Industries, a United States company.

Raw Materials:

The principal raw material purchased by the Company for its Activated Carbon and Service segment is bituminous coal from mines in the Appalachian Region as well as mines outside the United States, usually purchased under both long-term and annual supply contracts.

The Company purchases natural gas from various suppliers for use in its Activated Carbon and Service segment production facilities. In both the United States and Europe, substantially all natural gas is purchased pursuant to various annual and multi-year contracts with natural gas companies.

The Company purchases hydrogen peroxide via an annual supply contract for its UV technologies business.

The only other raw material that is purchased by the Company in significant quantities is pitch, which is used as a binder in the carbon manufacturing process. The Company purchases pitch from various suppliers in the United States and China under annual supply contracts and spot purchases.

The purchase of key equipment components is coordinated through agreements with various suppliers.

The Company does not presently anticipate any problems in obtaining adequate supplies of its raw materials or equipment components.

Research and Development:

The Company's primary research and development activities are conducted at a research center in Pittsburgh, Pennsylvania. This facility is used for the evaluation of experimental activated carbon and equipment and application development. Experimental systems are also designed and evaluated at this location. Facilities in Ashton-in-Makerfield, United Kingdom supplement the work performed in Pittsburgh.

The principal goals of the Company's research program are to improve the Company's position as a technological leader in solving customers' problems with its products, services and equipment; develop new products and services; and provide technical support to customers and operations of the Company.

The Company's research programs include new and improved methods for manufacturing and utilizing new and enhanced activated carbons. The Company has commercial sales of four new products for mercury removal from flue gas. Other carbons with improved performance for high sulfur oxide applications are under development. The Company continues to expand its UV product line with innovative products targeted at emerging markets. Designs of two new Sentinel® reactors were completed in 2008. Both reactors are designed to disinfect drinking water as well as to oxidize organic contaminants. The Company also completed the engineering and manufacture of its new C3 Series™ water reuse system. The system utilizes cutting edge flow distribution technology to improve the efficiency of water treatment.

Research and development expenses were \$4.1 million, \$3.7 million, and \$4.2 million in 2008, 2007 and 2006, respectively.

Patents and Trade Secrets:

The Company possesses a substantial body of technical knowledge and trade secrets and owns 72 United States patent applications and/or patents as well as 267 patent applications and/or patents in other countries. The issued United States and foreign patents expire in various years from 2009 through 2031.

The technology embodied in these patents, trade secrets, and technical knowledge applies to all phases of the Company's business including production processes, product formulations, and application engineering. The Company considers this body of technology important to the conduct of its business.

Regulatory Matters:

USA. By letter dated January 22, 2007, the Company received from the United States Environmental Protection Agency, Region 4 ("EPA") a report of a hazardous waste facility inspection performed by the EPA and the Kentucky Department of Environmental Protection ("KYDEP") as part of a Multi Media Compliance Evaluation of the Company's Big Sandy Plant in Catlettsburg, Kentucky that was conducted on September 20 and 21, 2005. Accompanying the report was a Notice of Violation ("NOV") alleging multiple violations of the Federal Resource Conservation and Recovery Act ("RCRA") and corresponding EPA and KYDEP hazardous waste regulations. The alleged violations mainly concern the hazardous waste spent activated carbon regeneration facility. The Company met with the EPA on April 17, 2007 to discuss the inspection report and alleged violations, and submitted written responses in May and June 2007. In August 2007, the EPA notified the Company that it believes there were still significant violations of RCRA that are unresolved by the information in the Company's responses, without specifying the particular violations. During a meeting with the EPA on December 10, 2007, the EPA indicated that the agency would not pursue certain other alleged violations. Based on discussions during the December 10, 2007 meeting, subsequent communications with EPA, and in connection with the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA") Notice referred to below, the Company has taken actions to address and remediate a number of the unresolved alleged violations. The Company believes that the number of unresolved issues as to alleged continuing violations cited in the January 22, 2007 NOV has been reduced substantially. The EPA can take formal enforcement action to require the Company to remediate any or all of the unresolved alleged continuing violations which could require the Company to incur substantial additional costs. The EPA can also take formal enforcement action to impose substantial civil penalties with respect to violations cited in the NOV, including those which have been admitted or resolved. The Company is awaiting further response from the EPA and cannot predict with any certainty the probable outcome of this matter or range of potential loss, if any.

On July 3, 2008, the EPA verbally informed the Company that there are a number of unresolved RCRA violations at the Big Sandy Plant which may render the facility unacceptable to receive spent carbon for reactivation from sites regulated under the CERCLA pursuant to the CERCLA Off-Site Rule. The Company received written notice of the unacceptability determination on July 14, 2008 (the "Notice"). The Notice alleges multiple violations of RCRA and four releases of hazardous waste. The alleged violations and releases stem from the September 2005 multi-media compliance inspections, and are among those alleged in the January 2007 NOV described in the preceding paragraph. The Company originally had until September 1, 2008 to demonstrate to the EPA that the alleged violations and releases are not continuing, or else the Big Sandy Plant will not be able to receive spent carbon from CERCLA sites until the EPA determines that the facility is again acceptable to receive such CERCLA wastes. The Company met with the EPA on August 25, 2008 and the Company submitted a written response to the Notice prior to the meeting.

By letter dated August 18, 2008, the Company was notified by the EPA Suspension and Debarment Division ("SDD") that because of the alleged violations described in the CERCLA Notice, the SDD was making an assessment of the Company's present responsibility to conduct business with Federal Executive Agencies. Representatives of the SDD attended the August 25, 2008 EPA meeting. On August 28, 2008, the Company received a letter from the Division requesting additional information from the Company in connection with the SDD's evaluation of the Company's potential "business risk to the Federal Government," noting that the Company engages in procurement transactions with or funded by the Federal Government. The Company provided the SDD with all information requested by the letter in September 2008. The SDD can suspend or debar a Company from sales to the federal government directly or indirectly through government contractors or with respect to projects funded by the federal government. In October 2008, the SDD indicated that it was still reviewing the matter but that another meeting with the Company was not warranted at the time. The Company believes that there is no basis for suspension or debarment on the basis of the matters asserted by the EPA in the Notice or otherwise.

By letter dated February 13, 2009, the EPA informed the Company that, based on information submitted by the Company indicating that the Big Sandy Plant has returned to physical compliance for the alleged violations and releases, the EPA has made an affirmative determination of acceptability for receipt of CERCLA wastes at the Big Sandy Plant. The EPA's determination is conditioned upon the Company treating certain residues resulting from the treatment of the carbon reactivation furnace off-gas as hazardous waste and not sending material dredged from the onsite wastewater treatment lagoons offsite other than to a permitted hazardous waste treatment, storage or disposal facility. The Company has requested clarification from the EPA regarding the conditions. The Company is also in discussions with the EPA and KYDEP regarding the classification of these materials. If the Company is required to treat and/or dispose of the material dredged from the lagoon as hazardous waste, the costs for doing so could be substantial.

In June 2007, the Company received a Notice Letter from the New York State Department of Environmental Conservation ("NYSDEC") stating that the NYSDEC had determined that the Company is a Potentially Responsible Party ("PRP") at the Frontier Chemical Processing Royal Avenue Site in Niagara Falls, New York (the "Site"). The Notice Letter requests that the Company and other PRPs develop, implement and finance a remedial program for Operable Unit #1 at the Site. Operable Unit #1 consists of overburden soils and overburden and upper bedrock groundwater. The selected remedy is removal of above grade structures and contaminated soil source areas, installation of a cover system, and ground water control and treatment, estimated to cost between approximately \$11 million and \$14 million, which would be shared among the PRPs. The Company has not determined what portion of the costs associated with the remedial program it would be obligated to bear and the Company cannot predict with any certainty the outcome of this matter or range of potential loss. The Company has joined a PRP group and has executed a Joint Defense Agreement with the group members. In August 2008, the Company and over 100 PRP's entered into a Consent Order with the NYSDEC for additional site investigation directed toward characterization of the Site to better define the scope of the remedial project. The Company contributed monies to the PRP group to help fund the work required under the Consent Order. The field work was initiated in 2008 but suspended due the onset of winter. The group plans to complete the work in the spring of 2009.

By letter dated July 3, 2007, the Company received an NOV from the KYDEP alleging that the Company has violated the KYDEP's hazardous waste management regulations in connection with the Company's hazardous waste spent activated carbon regeneration facility located at the Big Sandy Plant in Catlettsburg, Kentucky. The NOV alleges that the Company has failed to correct deficiencies identified by the KYDEP in the Company's Part B hazardous waste management facility permit application and related documents and directed the Company to submit a complete and accurate Part B application and related documents and to respond to the KYDEP's comments which were appended to the NOV. The Company submitted a response to the NOV and the KYDEP's comments in December 2007 by providing a complete revised permit application. The KYDEP has not indicated whether or not it will take formal enforcement action, and has not specified a monetary amount of civil penalties it might pursue in any such action, if any. KYDEP can also deny the Part B operating permit. On October 18, 2007, the Company received an NOV from the EPA related to this permit application and submitted a revised application to both the KYDEP and the EPA within the mandated timeframe. The EPA has not indicated whether or not it will take formal enforcement action, and has not specified a monetary amount of civil penalties it might pursue in any such action. The EPA can also deny the Part B operating permit. At this time the Company cannot predict with any certainty the outcome of this matter or range of loss, if any.

In conjunction with the February 2004 purchase of substantially all of Waterlink's operating assets and the stock of Waterlink's U.K. subsidiary, several environmental studies were performed on Waterlink's Columbus, Ohio property by environmental consulting firms which identified and characterized areas of contamination. In addition, these firms identified alternative methods of remediating the property, identified feasible alternatives and prepared cost evaluations of the various alternatives. The Company concluded from the information in the studies that a loss at this property is probable and recorded the liability as a component of noncurrent other liabilities in the Company's consolidated balance sheet. At December 31, 2008, the balance recorded was \$4.0 million. Liability estimates are based on an evaluation of, among other factors, currently available facts, existing technology, presently enacted laws and regulations, and the remediation experience of other companies. The Company has not incurred any environmental remediation expense for the years ended December 31, 2008 and 2007, but incurred \$0.1 million of expense in 2006. It is reasonably possible that a change in the estimate of this obligation will occur as remediation preparation and remediation activity commences in the future. The ultimate remediation costs are dependent upon, among other things, the requirements of any state or federal environmental agencies, the remediation methods employed, the final scope of work being determined, and the extent and types of contamination which will not be fully determined until experience is gained through remediation and related activities. The accrued amounts are expected to be paid out over the course of several years once work has commenced. The Company has yet to make a determination as to when it will proceed with remediation efforts.

Europe. The Company is also subject to various environmental health and safety laws and regulations at its facilities in Belgium, Germany and the United Kingdom. These laws and regulations address substantially the same issues as those applicable to the Company in the United States. The Company believes it is presently in substantial compliance with these laws and regulations.

Indemnification. The Company has a limited indemnification agreement with the previous owner of the Company which will fund certain environmental costs if they are incurred at the Company's Catlettsburg, Kentucky plant. The Company believes that the amount of the indemnification is sufficient to fund these liabilities if they arise.

Employee Relations:

As of December 31, 2008, the Company employed 943 persons on a full-time basis, 684 of whom were salaried and non-union hourly production, office, supervisory and sales personnel. The United Steelworkers represent 227 hourly personnel in the United States. The current contracts with the United Steelworkers expire on April 1, 2009 at the Catlettsburg, Kentucky facility, February 15, 2010 at the Columbus, Ohio facility and July 1, 2011 at the Pittsburgh, PA location. The 32 hourly personnel at the Company's Belgian facility are represented by two national labor organizations with contracts expiring on July 31, 2009. The Company also has hourly employees at three non-union United Kingdom facilities, two non-union United States facility one each located in California and Mississippi, and at two non-union China facilities.

Copies of Reports:

The periodic and current reports of the Company filed with the SEC pursuant to Section 13(a) of the Securities Exchange Act of 1934 are available free of charge, as soon as reasonably practicable after the same are filed with or furnished to the SEC, at the Company's website at www.calgoncarbon.com. All other filings with the SEC are available on the SEC's website at www.sec.gov.

Copies of Corporate Governance Documents:

The following Company corporate governance documents are available free of charge at the Company's website at www.calgoncarbon.com and such information is available in print to any shareholder who requests it by contacting the Secretary of the Company at 400 Calgon Carbon Drive, Pittsburgh, PA 15205.

- Corporate Governance Guidelines
- Audit Committee Charter
- Compensation Committee Charter
- Corporate Governance Committee Charter
- Code of Business Conduct and Ethics
- Code of Ethical Business Conduct Supplement for Chief Executive and Senior Financial Officers
- Director Orientation and Continuing Education Policy

• Executive Committee Charter

Item 1A. Risk Factors:

Risks relating to our business

Our pension plans are currently underfunded, and we expect to be subject to significant increases in pension contributions to our defined benefit pension plans, thereby restricting our cash flow.

We sponsor various pension plans in the United States and Europe that are underfunded and require significant cash payments. We contributed \$4.1 million and \$5.4 million to our U.S. Pension plans and \$2.1 million and \$2.4 million to our European pension plans in 2008 and 2007, respectively. We currently expect to contribute approximately \$1.1 million to our U.S. pension plans to meet minimum funding requirements and \$1.7 million to our European pension plans in 2009. The current economic environment is negatively impacting the fair value of our pension assets which could result in increased funding requirements of our pension plans. If our cash flow from operations is insufficient to fund our worldwide pension liability, we may be forced to reduce or delay capital expenditures or seek additional capital.

The funding status of our pension plans is determined using many assumptions, such as inflation, investment rates, mortality, turnover and interest rates, any of which could prove to be different than projected. If the performance of the assets in our pension plans does not meet our expectations, or if other actuarial assumptions are modified, or not realized, we may be required to contribute more to our pension plans than we currently expect. For example, an approximate 25-basis point decline in the funding target interest rate under Section 730 of the Internal Revenue Code, as added by the Pension Protection Act of 2006 for minimum funding requirements, would increase our minimum required contributions to our U.S. pension plans by approximately \$1.5 million to \$2.1 million over the next three years.

Our pension plans in the aggregate are underfunded by approximately \$48 million as of December 31, 2008 (based on the actuarial assumptions used for SFAS No. 87, "Employers' Accounting for Pensions," purposes and comparing our projected benefit obligation to the fair value of plan assets) and required a certain level of mandatory contributions as prescribed by law. Our U.S. pension plans, which were underfunded by approximately \$34 million as of December 31, 2008, are subject to ERISA. In the event our U.S. pension plans are terminated for any reason while the plans are less than fully funded, we will incur a liability to the Pension Benefit Guaranty Corporation that may be equal to the entire amount of the underfunding at the time of the termination. In addition, changes in required pension funding rules that were affected by the enactment of the Pension Protection Act of 2006 have significantly increased our funding requirements, which could have an adverse effect on our cash flow and require us to reduce or delay our capital expenditures or seek additional capital. See Note 12 to our consolidated financial statements contained in Item 8 of this Annual Report.

Our financial results could be adversely affected by an interruption of supply or an increase in coal prices.

We use bituminous coal as the main raw material in our granular activated carbon production process. We estimate that coal will represent approximately 60% of our carbon product costs in 2009. We have various annual and multi-year contracts in place for the supply of coal that expire at various intervals from 2008 to 2011. Interruptions in coal supply caused by mine accidents, labor disputes, transportation delays, breach of supplier contractual obligations, or other events for other than a temporary period could have an adverse effect on our ability to meet customer demand. In addition, increases in the prices we pay for coal under our supply contracts could adversely affect our financial results by significantly increasing production costs. During 2008, our aggregate costs for coal increased by \$2.6 million, or 16.2%, compared to 2007. Based upon the estimated usage of coal in 2009, a hypothetical 10% increase in the price of coal would result in \$1.9 million of additional pre-tax expenses to us. We may not be able to pass through raw material price increases to our customers.

Our financial results could be adversely affected by shortages in energy supply or increases in energy costs.

The price for and availability of energy resources could be volatile as it is affected by political and economic conditions that are outside our control. We utilize natural gas as a key component in our activated carbon manufacturing process and have annual and multi-year contracts for the supply of natural gas at each of our major facilities. If shortages of, or restrictions on the delivery of natural gas occur, production at our activated carbon facilities would be reduced, which could result in missed deliveries or lost sales. We also have exposure to fluctuations in energy costs as they relate to the transportation and distribution of our products. For example, natural gas prices have increased significantly in recent years. We may not be able to pass through natural gas and other fuel price increases to our customers.

Increases in U.S. and European imports of Chinese or other foreign manufactured activated carbon could have an adverse effect on our financial results.

We face pressure and competition in our U.S. and European markets from brokers of low cost imported activated carbon products, primarily from China. We believe we offer the market technically superior products and related customer support. However, in some applications, low cost imports have become accepted as viable alternatives to our products because they have been frequently sold at less than fair value in the market. If the markets in which we compete experience an increase in these imported low cost carbons, especially if sold at less than fair value, we could see declines in net sales. In addition, the sales of these low cost activated carbons may make it more difficult for us to pass through raw material price increases to our customers.

In response to a petition from the U.S. activated carbon industry filed in March 2006, the United States Department of Commerce (the "DOC") announced the imposition of anti-dumping duties starting in October 2006. The DOC announcement was based on extensive economic analysis of the operations and pricing practices of the Chinese producers and exporters. The DOC announcement required U.S. Customs and Border Protection to require importers of steam activated carbon from China to post a provisional bond or cash deposit in the amount of the duties. The anti-dumping duties are intended to offset the amount by which the steam activated carbon from China is sold at less than fair value in the U.S.

In March 2007, the International Trade Commission (the "ITC") determined that these unfairly priced steam activated carbon imports from China caused material injury to the U.S. activated carbon industry. This affirmative decision by the ITC triggered the imposition of significant anti-dumping duties in the form of cash deposits, ranging from 62% to 228%. The anti-dumping duties will be imposed for at least five years but are subject to periodic review within that time frame. The first review period began April 2008 with subsequent opportunities for review every April with respect to the twelve months then completed. A preliminary determination is due no later than March 31, 2009. The significant anti-dumping duties imposed by the DOC and the affirmative decision by the ITC has had an adverse impact on the cost of Chinese manufactured activated carbon imported into the U.S. However, the anti-dumping duties could be reduced or eliminated in the future, which could adversely affect demand or pricing for our product.

Our inability to successfully negotiate new collective bargaining agreements upon expiration of the existing agreements could have an adverse effect on our financial results.

We have collective bargaining agreements in place at four of our production facilities covering approximately 27% of our full-time workforce as of December 31, 2008. Those collective bargaining agreements expire from 2009 through 2011. Any work stoppages as a result of disagreements with any of the labor unions or our failure to renegotiate any of the contracts as they expire could disrupt production and significantly increase product costs as a result of less efficient operations caused by the resulting need to rely on temporary labor.

Our business is subject to a number of global economic risks

As widely reported, financial markets in the United States, Europe and Asia have been experiencing extreme disruption, including, among other things, extreme volatility in security prices, severely diminished liquidity and credit availability, rating downgrades of certain investments and declining valuations of others. Governments have taken unprecedented actions intending to address extreme market conditions that include severely restricted credit and declines in values of certain assets.

An economic downturn in the businesses or geographic areas in which we sell our products could reduce demand for our products and result in a decrease in sales volume that could have a negative impact on our results of operations. Continued volatility and disruption of financial markets in the United States, Europe and Asia could limit our customers' ability to obtain adequate financing or credit to purchase our products or to maintain operations, and

result in a decrease in sales volumes that could have a negative impact on our results of operations.

We have operations in multiple foreign countries and, as a result, are subject to foreign exchange translation risk, which could have an adverse effect on our financial results.

We conduct significant business operations in several foreign countries. Of our 2008 net sales, approximately 45% were sales to countries other than the United States, and 2008 net sales denominated in non-U.S. dollars represented approximately 34% of our overall net sales. We conduct business in the local currencies of each of our foreign subsidiaries or affiliates. Those local currencies are then translated into U.S. dollars at the applicable exchange rates for inclusion in our consolidated financial statements. The exchange rates between some of these currencies and the U.S. dollar in recent years have fluctuated significantly and may continue to do so in the future. Changes in exchange rates, particularly the strengthening of the U.S. dollar, could significantly reduce our sales and profitability from foreign subsidiaries or affiliates from one period to the next as local currency amounts are translated into fewer U.S. dollars.

Our European and Japanese activated carbon businesses are sourced from both the United States and China, which subjects these businesses to foreign exchange transaction risk.

Our only production facilities for virgin granular activated carbon are in the United States and China. Those production facilities are used in supplying our global demand for virgin granular activated carbon. All of our foreign operations purchase from the U.S. and China operations in U.S. dollars yet sell in local currency, resulting in foreign exchange transaction risk. We generally execute foreign currency derivative contracts of not more than eighteen months in duration to cover a portion of our known or projected foreign currency exposure. However, those contracts do not protect us from longer-term trends of a strengthening U.S. dollar, which could significantly increase our cost of activated carbon delivered to our European and Japanese markets, and we may not be able to offset these costs by increasing our prices.

Our business includes capital equipment sales which could have extreme fluctuations due to the cyclical nature of that type of business.

Our Equipment segment represented approximately 12% of our 2008 net sales. This business generally has a long project life cycle from bid solicitation to project completion and often requires customers to make large capital commitments well in advance of project execution. In addition, this business is usually affected by the general health of the overall economy. As a result, sales and earnings from the Equipment segment could be volatile.

We could find it difficult to fund the capital needed to complete our growth strategy due to borrowing restrictions under our current credit facility.

Our current credit facility requires compliance with various affirmative and negative covenants, including limitations with respect to our ability to pay dividends, make loans, incur indebtedness, grant liens on our property, engage in certain mergers and acquisitions, dispose of assets and engage in certain transactions with our affiliates. Borrowing availability under our current credit facility is based on the value, from time to time, of certain of our accounts receivable, inventory, and equipment. As a result, these restrictions may prevent us from being able to borrow sufficient funds under our current credit facility to meet our future capital needs, and alternate financing on terms acceptable to us may not be available.

If our liquidity would remain constrained for more than a temporary period, we may need to either delay certain strategic growth projects or access higher cost capital markets in order to fund our projects, which may adversely affect our financial results.

Our required capital expenditures may exceed our estimates.

Our capital expenditures were \$34.9 million in 2008, including approximately \$13.0 million related to the planned re-start of a currently idled production line. Future capital expenditures may be significantly higher and may vary substantially if we are required to undertake certain actions to comply with new regulatory requirements or compete with new technologies. We may not have the capital to undertake these capital investments. If we are unable to do so, we may not be able to effectively compete.

Declines in the operating performance of one of our business segments could result in an impairment of the segment's goodwill.

As of December 31, 2008, we had consolidated goodwill of approximately \$26.3 million recorded in our business segments, primarily from our Activated Carbon and Service and Equipment segments. We test our goodwill on an annual basis or when an indication of possible impairment exists in order to determine whether the carrying value of our assets is still supported by the fair value of the underlying business. To the extent that it is not, we are required to record an impairment charge to reduce the asset to fair value. For the year ended December 31, 2006, we recorded a \$6.9 million impairment charge associated with our UV equipment reporting unit, principally as a result of the fourth quarter decision by the Federal Court of Canada, which found that our patent for the use of UV light to prevent infection from *Cryptosporidium* in drinking water is invalid. As a result, our estimate of future royalty income used in determining the fair value of the reporting unit declined substantially from the prior year. A decline in the operating performance of any of our business segments could result in a goodwill impairment charge which could have a material effect on our financial results.

Delays in enactment of new state or federal regulations could restrict our ability to reach our strategic growth targets and lower our return on invested capital.

Our strategic growth initiatives are reliant upon more restrictive environmental regulations being enacted for the purpose of making water and air cleaner and safer. If stricter regulations are delayed or are not enacted or enacted but subsequently repealed or amended to be less strict, or enacted with prolonged phase-in periods, our sales growth targets could be adversely affected and our return on invested capital could be reduced.

For example, stricter regulations surrounding the treatment of *Cryptosporidium* and other disease causing microorganisms in drinking water, as addressed by the EPA's promulgation of the Long Term 2 Enhanced Surface Water Treatment Rule ("LT2"), were expected to be effective as of the fourth quarter of 2004. LT2 was not ultimately published in the Federal Register until January 2006, thus delaying municipalities' requirements for testing and any subsequent need to fund a plan for remediation by over a year. The effect has been a delay in the timing of the expected growth for our UV equipment business.

The Company had expected increased demand for powdered activated carbon products beginning in 2009 largely driven by the EPA's Clean Air Mercury Rule, which established an emissions trading system to reduce mercury emissions from coal-fired power plants by approximately 70% over a 10 year period. On February 8, 2008, the United States Circuit Court of Appeals for the District of Columbia vacated the Clean Air Mercury Rule. Additional appeals, litigation, and regulatory proceedings could defer implementation of another EPA mercury reduction regulation for years or indefinitely. Even if adoption of a new Clean Air Mercury Rule is delayed indefinitely by the legal legislative and regulatory process, existing federal and state laws and regulations, as well as state or federal legislation introduced in response to the Court of Appeals decision and new litigation, could result in substantially more stringent regulation, resulting in higher-than expected demand for the Company's products. The Company is unable to predict with certainty when and how the outcome of these complex legal, regulatory and legislative proceedings will affect demand for its products.

Our industry is highly competitive. If we are unable to compete effectively with competitors having greater resources than we do, our financial results could be adversely affected.

Our activated carbon business faces significant competition principally from Norit N.V., Mead/Westvaco Corporation and Siemens Water Technologies, as well as European and Chinese activated carbon producers and East Asian producers of coconut-based activated carbon. Our UV technology products face significant competition from principally Trojan Technologies, Inc., which is owned by Danaher Corporation, and Wedeco Ideal Horizons, which is owned by ITT Industries. Our competitors include major manufacturers and diversified companies, a number of which have revenues and capital resources exceeding ours, which they may use to develop more advanced or more cost-effective technologies, increase market share or leverage their distribution networks. We could experience reduced net sales as a result of having fewer resources than these competitors.

Encroachment into our markets by competitive technologies could adversely affect our financial results.

Activated carbon is utilized in various applications as a cost-effective solution to solve customer problems. If other competitive technologies, such as membranes, ozone and UV, are advanced to the stage in which such technologies could cost effectively compete with activated carbon technologies, we could experience a decline in net sales, which could adversely affect our financial results.

Failure to innovate new products or applications could adversely affect our ability to meet our strategic growth targets.

Part of our strategic growth and profitability plans involve the development of new products or new applications for our current products in order to replace more mature products or markets that have seen increased competition. If we are unable to develop new products or applications, our financial results could be adversely affected.

A planned or unplanned shutdown at one of our production facilities could have an adverse effect on our financial results.

We operate multiple facilities and source product from strategic partners who operate facilities which are close to water or in areas susceptible to hurricanes and earthquakes. An unplanned shutdown at any of our or our strategic partners' facilities for more than a temporary period as a result of a hurricane, typhoon, earthquake or other natural disaster, or as a result of fire, explosions, war, terrorist activities, political conflict or other hostilities, could significantly affect our ability to meet our demand requirements, thereby resulting in lost sales and profitability in the short-term or eventual loss of customers in the long-term. In addition, a prolonged planned shutdown of any of our production facilities due to a change in business conditions could result in impairment charges that could have an adverse impact on our financial results.

An example of an unplanned shutdown of one of our production facilities was the shutdown of our Pearl River facility in Pearlinton, Mississippi due to damage caused by Hurricane Katrina in August 2005. The plant did not become operational again until November 2005 and was not operating again at full capacity until January 2006. Certain customer shipments were either delayed or cancelled during the plant outage, the consequences of which adversely affected us during 2006. We estimated our pre-tax business interruption losses during 2005 and 2006 to be approximately \$4.4 million in the aggregate due to the effect of the unplanned shutdown of the Pearl River facility.

We hold a variety of patents that give us a competitive advantage in certain markets. An inability to defend those patents from competitive attack could have an adverse effect on both current results and future growth targets.

From time to time in the course of our business, we have to address competitive challenges to our patented technology. Following protracted litigation in multiple jurisdictions, the U.S. Court of Appeals for the Federal Circuit held that our process patents for the use of ultraviolet light to prevent infection from *Cryptosporidium* and *Giardia* in drinking water (the "UV patents") are invalid in the United States. On March 3, 2008, the Supreme Court of Canada held that our Canadian UV patents are invalid, thereby concluding this case. We did not appeal the ruling in the United States. A German trial court has found that a competitor infringed our UV patents with respect to medium pressure ultraviolet light, but did not infringe with respect to low pressure ultraviolet light. The Company appealed the decision relating to low pressure ultraviolet light. The competitor did not appeal. The validity of the German UV patents, as distinguished from issues of infringement which were decided in the trial court, is the subject of administrative proceedings in Germany. The outcome of these cases has impaired the Company's ability to capitalize on substantial future revenues from the licensing of its UV patents.

With the exception of 2008 and 2007, we have incurred significant legal fees and expenses in recent years litigating these matters. For example, legal expenses related to these patent litigation matters totaled approximately \$4.7 million in 2006. We may be required to incur additional significant legal expenses to defend our intellectual property in the future.

Furthermore, these legal disputes over our UV patents may adversely affect our business and growth prospects because they may suppress overall demand for UV equipment as municipalities may decide to wait for the completion of the litigation to resolve the resulting uncertainties before making investment decisions.

Our products could infringe the intellectual property rights of others, which may cause us to pay unexpected litigation costs or damages or prevent us from selling our products.

Although it is our intention to avoid infringing or otherwise violating the intellectual property rights of others, our products may infringe or otherwise violate the intellectual property rights of others. We may be subject to legal proceedings and claims, including claims of alleged infringement by us of the patents and other intellectual property rights of third parties. Intellectual property litigation is expensive and time-consuming, regardless of the merits of any claim.

If we were to discover or be notified that our products potentially infringe or otherwise violate the intellectual property rights of others, we may need to obtain licenses from these parties or substantially re-engineer our products in order to avoid infringement. We might not be able to obtain the necessary licenses on acceptable terms, or at all, or be able to re-engineer our products successfully. Moreover, if we are sued for infringement and lose the suit, we could be required to pay substantial damages and/or be enjoined from using or selling the infringing products. Any of the foregoing could cause us to incur significant costs and prevent us from selling our products.

Environmental compliance and remediation could result in substantially increased capital requirements and operating costs.

Our production facilities are subject to environmental laws and regulations in the jurisdictions in which they operate or maintain properties. Costs may be incurred in complying with such laws and regulations. Each of our domestic production facilities require permits and licenses issued by local, state and federal regulators which regulate air emissions, water discharges, and solid waste handling. These permits are subject to renewal and, in some circumstances, revocation. International environmental requirements vary and could have substantially lesser requirements that may give competitors a competitive advantage. Additional costs may be incurred if environmental remediation measures are required. In addition, the discovery of contamination at any of our current or former sites or at locations at which we dispose of waste may expose us to cleanup obligations and other damages. For example, the Company received Notices of Violations (“NOVs”) from the U.S. EPA in January 2007, October 2007, and June 2008 and from the Kentucky Department of Environmental Protection in July 2007. While the Company is attempting to resolve these matters, an unfavorable result could have a significant adverse impact on its results of operations and cash flows. If we receive similar demands in the future, we may incur significant costs in connection with the resolution of those matters. Refer to Regulatory Matters within Item 1, Business for a more detailed discussion.

Our international operations expose us to political and economic uncertainties and risks from abroad, which could negatively affect our results of operations.

We have manufacturing facilities and sales offices in Europe, China, Japan, Taiwan, Singapore, Brazil, Mexico, Canada, and the United Kingdom which are subject to economic conditions and political factors within the respective countries which, if changed in a manner adverse to us, could negatively affect our results of operations and cash flow. Political risk factors include, but are not limited to, taxation, nationalization, inflation, currency fluctuations, foreign exchange restrictions, increased regulation and quotas, tariffs and other protectionist measures. Approximately 88% of our sales in 2008 were generated by products sold in the U.S., Canada, and Western Europe while the remaining sales were generated in other areas of the world, such as Asia, Eastern Europe, and Latin America.

Our international operations are subject to political and economic risks for conducting business in corrupt environments.

Although a portion of our international business is currently in regions where the risk level and established legal systems in many cases are similar to that in the United States, we also conduct business in developing countries, and we are focusing on increasing our sales in regions such as South America, Southeast Asia, India and the Middle East, which are less developed, have less stability in legal systems and financial markets, and are generally recognized as potentially more corrupt business environments than the United States and therefore, present greater political, economic and operational risks. We emphasize compliance with the law and have policies in place, procedures and certain ongoing training of employees with regard to business ethics and key legal requirements such as the U.S. Foreign Corrupt Practices Act (“FCPA”); however, there can be no assurances that our employees will adhere to our code of business conduct, other Company policies or the FCPA. If we fail to enforce our policies and procedures properly or maintain internal accounting practices to accurately record our international transactions, we may be subject to regulatory sanctions. We could incur significant costs for investigation, litigation, fees, settlements and judgments for potential violations of the FCPA or other laws or regulations which, in turn, could negatively affect our results of operations.

Our ability to utilize our foreign tax credits and net operating losses may be limited.

As of December 31, 2008, we had net operating loss carryforwards (“NOLs”) of approximately \$52.5 million for state income tax purposes. Under Section 382 of the Internal Revenue Code, if a corporation undergoes an “ownership change,” the corporation’s ability to use its pre-change NOLs and other pre-change tax attributes to offset its post-change income may be limited. An ownership change is generally defined as a greater than 50% change in its equity ownership by value over a three-year period. We could experience an ownership change in the future as a result of changes in our stock ownership. If we were to trigger an ownership change in the future, our ability to use any NOLs existing at that time could be limited.

At December 31, 2008, we had \$12.2 million of foreign tax credit carryforwards for which we have established a valuation reserve of \$7.9 million. If some or all of these tax credits expire, they will not be available to offset our tax liability.

Our stockholder rights plan and our certificate of incorporation and bylaws and Delaware law contain provisions that may delay or prevent an otherwise beneficial takeover attempt of our company.

Our stockholder rights plan and certain provisions of our certificate of incorporation and bylaws and Delaware law could make it more difficult for a third party to acquire us, even if doing so would be beneficial to our stockholders. These include provisions:

- providing for a board of directors with staggered, three-year terms;
- requiring super-majority voting to affect certain amendments to our certificate of incorporation and bylaws;
 - limiting the persons who may call special stockholders' meetings;
 - limiting stockholder action by written consent;
- establishing advance notice requirements for nominations for election to the board of directors or for proposing matters that can be acted upon at stockholders' meetings; and
 - allowing our board of directors to issue shares of preferred stock without stockholder approval.

These provisions, alone or in combination with each other, may discourage transactions involving actual or potential changes of control, including transactions that otherwise could involve payment of a premium over prevailing market prices to holders of our common stock, or could limit the ability of our stockholders to approve transactions that they may deem to be in their best interest.

Item 1b. Unresolved Staff Comments:

None.

Item 2. Properties:

The Company owns nine production facilities, two of which are located in Pittsburgh, Pennsylvania; and one each in the following locations: Catlettsburg, Kentucky; Pearlinton, Mississippi; Blue Lake, California; Columbus, Ohio; Feluy, Belgium; Grays, United Kingdom; and Datong, China. The Company leases one production facility in each of the following locations: Coraopolis, Pennsylvania; Houghton le-Spring, United Kingdom; Ashton-in-Makerfield, United Kingdom; and Tianjin, China. The Company's 49% owned joint venture, Calgon Mitsubishi Chemical Corporation, owns one facility in Fukui, Fukui Prefecture, Japan. The Company owns two warehouses, one of which is in Pittsburgh, Pennsylvania and the other is in La Louviere, Belgium. The Company also leases thirty-two warehouses, service centers, and sales office facilities. Of these, twenty-three are located in the United States, four in China, and one each in the United Kingdom, Germany, Canada, Singapore, and Taiwan. Four of the United States facilities are located in Pittsburgh, Pennsylvania and one each in the following locations: Downingtown, Pennsylvania; Johnston, Rhode Island; Rockdale, Illinois; Santa Fe Springs, California; Marlton, New Jersey; Stockton, California; Tempe, Arizona; Torrance, California; Ontario, California; Schenley, Pennsylvania; South Point, Ohio; Muncy, Pennsylvania; Steubenville, Ohio; Ironton, Ohio; and Sulphur, Louisiana as well as two each in Houston, Texas and Huntington, West Virginia. The United Kingdom facility is located in Ashton-in-Makerfield. The facility in Germany is located in Beverungen. Two of the China facilities are located in Shanghai and one each in Beijing and Tianjin. The Taiwan facility is located in Taipei. The Canadian facility is located in Richmond Hill, Ontario. The Company's 49% owned joint venture, Calgon Mitsubishi Chemical Corporation, leases four offices, one in each Tokyo and Osaka, and two in Fukuoka Prefecture. The Company's 20% owned joint venture, Calgon Carbon (Thailand) Company Ltd., leases one facility in Nakornrachasima, Thailand.

The Catlettsburg, Kentucky plant is the Company's largest facility, with plant operations occupying approximately 50 acres of a 226-acre site. This plant, which serves the Activated Carbon and Service segment, produces granular and powdered activated carbons and acid washed granular activated carbons and reactivates spent granular activated carbons.

The Pittsburgh, Pennsylvania carbon production plant occupies a four-acre site and serves the Activated Carbon and Service segment. Operations at the plant include the reactivation of spent granular activated carbons, the impregnation of granular activated carbons and the grinding of granular activated carbons into powdered activated carbons. The plant also has the capacity to produce coal-based or coconut-based specialty activated carbons.

The Pearlinton, Mississippi plant occupies a site of approximately 100 acres. The plant has one production line that produces granular and powdered activated carbons for the Activated Carbon and Service segment.

The Columbus plant occupies approximately 27 acres in Columbus, Ohio. Operations at the plant include the reactivation of spent granular activated carbons, impregnation of activated carbon, crushing activated carbon to fine mesh, acid and water washing, filter-filling, and various other value added processes to granular activated carbon for the Activated Carbon and Service segment.

The Blue Lake plant, located near the city of Eureka, California, occupies approximately two acres. The plant was previously idled and start-up began in November 2008. The primary operation at the plant includes the reactivation of spent granular activated carbons for the Activated Carbon and Service segment.

The Pittsburgh, Pennsylvania Equipment and Assembly plant is located on Neville Island and is situated within a 16-acre site that includes a 300,000 square foot building. The Equipment and Assembly plant occupies 85,000 square feet with the remaining space used as a centralized warehouse for carbon inventory. The plant, which serves the Equipment and Activated Carbon and Service segments, manufactures and assembles fully engineered carbon equipment for purification, concentration and separation systems. This plant also serves as the east coast staging and refurbishment point for carbon service equipment.

The Coraopolis, Pennsylvania Engineered Solutions plant is a 44,000 square foot production facility located near Pittsburgh, Pennsylvania. The primary focus of this facility is the manufacture of UV and Ion Exchange (ISEP®) equipment, including mechanical and electrical assembly, controls systems integration and validation testing of equipment. This location also serves as the Pilot Testing facility for Process Development, as well as the spare parts distribution center for UV and ISEP® systems.

The Feluy plant occupies a site of approximately 21 acres located 30 miles south of Brussels, Belgium. Operations at the plant include both the reactivation of spent granular activated carbons and the grinding of granular activated carbons into powdered activated carbons for the Activated Carbon and Service segment.

The Grays plant occupies a three-acre site near London, United Kingdom. Operations at the plant include the reactivation of spent granular activated carbons for the Activated Carbon and Service segment.

The Ashton-in-Makerfield plant occupies a 1.6 acre site, 20 miles west of Manchester, United Kingdom. Operations at the plant include the impregnation of granular activated carbons for the Activated Carbon and Service segment. The plant also has the capacity to finish coal-based or coconut-based activated carbons.

The Houghton le-Spring plant, located near the city of Newcastle, United Kingdom, occupies approximately two acres. Operations at the plant include the manufacture of woven and knitted activated carbon textiles and their impregnation and lamination for the Consumer segment.

The Fukui, Fukui Prefecture, Japan plant is 49% owned by Calgon Carbon as part of a joint venture with Mitsubishi Chemical Company. The joint venture is Calgon Mitsubishi Chemical Corporation. The plant, which serves the Activated Carbon and Service segment, occupies a site of approximately six acres and has one production line for carbon reactivation.

The Datong, China plant occupies 15,000 square meters. This plant produces agglomerated activated carbon intermediate product for the Activated Carbon and Service segment for use in both the potable and industrial markets.

The Tianjin, China plant is licensed to export activated carbon products. It occupies approximately 35,000 square meters. This plant finishes, sizes, tests, and packages activated carbon products for the Activated Carbon and Service segment for distribution both inside China and for export.

The Company believes that the plants and leased facilities are adequate and suitable for its current operating needs.

Item 3. Legal Proceedings:

On March 20, 2007, the Company and ADA-ES entered into a Memorandum of Understanding (“MOU”) providing for cooperation between the companies to attempt to jointly market powdered activated carbon (“PAC”) to the electric power industry for the removal of mercury from coal fired power plant flue gas. The MOU provided for commissions to be paid to ADA-ES in respect of product sales. The Company terminated the MOU effective as of August 24, 2007 for convenience. Neither party had entered into sales or supply agreements with prospective customers as of that date. On March 3, 2008, the Company entered into a supply agreement with a major U.S. power generator for the sale of powdered activated carbon products with a minimum purchase obligation of approximately \$55 million over a 5 year period. ADA-ES claimed that it is entitled to commissions of an amount of at least \$8.25 million over the course of the

5 year contract, which the Company denies. On September 29, 2008, the Company filed suit in the United States District Court for the Western District of Pennsylvania for a declaratory judgment from the Court that the Company has no obligation to pay ADA-ES commissions related to this contract or for any future sales made after August 24, 2007.

Following protracted litigation in multiple jurisdictions, the U.S. Court of Appeals for the Federal Circuit held that the Company’s process patents for the use of ultraviolet light to prevent infection from *Cryptosporidium* and *Giardia* in drinking water (the “UV patents”) are invalid in the United States concluding the U.S. litigation relating to the UV patents. On March 3, 2008, the Supreme Court of Canada held that the Company’s Canadian UV patents are invalid concluding the Canadian UV patent litigation. In March 2007, the Company and Trojan entered into a settlement whereby in exchange for a nominal cash payment and relief from legal fees, the Company granted Trojan Technologies, Inc. worldwide immunity from all current and future legal action related to the Company’s UV patents. In 2007, a German trial court found that a competitor infringed the Company’s UV patents with respect to medium pressure ultraviolet light, but did not infringe with respect to low pressure ultraviolet light. The Company appealed the decision relating to low pressure light. The competitor did not appeal. By order dated September 29, 2008, each party nominated an expert to provide opinions as to questions posed by the Court. The Court will then choose one of the experts nominated or choose another expert. The validity of the German UV patents, as distinguished from issues of infringement which were decided in the trial court, is the subject of pending administrative proceedings in Germany. The outcome of these cases has impaired the Company’s ability to capitalize on substantial future revenues from the licensing of its UV patents.

In addition to the matters described above, the Company is involved in various other legal proceedings, lawsuits and claims, including employment, product warranty and environmental matters of a nature considered normal to its business. It is the Company's policy to accrue for amounts related to these legal matters when it is probable that a liability has been incurred and the loss amount is reasonably estimable. Management believes that the ultimate liabilities, if any, resulting from such lawsuits and claims will not materially affect the consolidated financial position or liquidity of the Company, but an adverse outcome could be material to the results of operations in a particular period in which a liability is recognized.

Item 4. Submission of Matters to a Vote of Security Holders:

No matters were submitted to a vote of security holders during the fourth quarter of 2008.

PART II

Item 5. Market for Registrant's Common Equity, Related Shareholder Matters, and Issuer Repurchases of Equity Securities:

COMMON SHARES AND MARKET INFORMATION

Common shares are traded on the New York Stock Exchange under the trading symbol CCC. There were 1,325 registered shareholders at December 31, 2008.

Quarterly Common Stock Price Ranges and Dividends

| Fiscal Quarter | High | 2008 | | High | 2007 | |
|----------------|-------|-------|----------|-------|-------|----------|
| | | Low | Dividend | | Low | Dividend |
| First | 18.92 | 13.19 | - | 9.52 | 5.43 | - |
| Second | 20.23 | 12.63 | - | 12.20 | 7.37 | - |
| Third | 23.03 | 14.04 | - | 14.74 | 10.30 | - |
| Fourth | 21.64 | 9.11 | - | 16.96 | 11.64 | - |

The Company did not declare or pay any dividends in 2008 and 2007. Dividend declaration and payout are at the discretion of the Board of Directors. Future dividends will depend on the Company's earnings, cash flows, and capital investment plans to pursue long-term growth opportunities. The Company's Credit Facility contains covenants which include limitation on the ability to declare or pay cash dividends or make other restricted payments, subject to certain exceptions, such as dividends declared and paid by its subsidiaries and cash dividends paid by the Company in an amount not to exceed \$6.0 million in the aggregate during any fiscal year if certain conditions are met.

The information appearing in Item 12 of Part III below regarding common stock issuable under the Company's equity compensation plan is incorporated herein by reference.

Shareholder Return Performance Graph

The following performance graph and related information shall not be deemed “filed” with the Securities and Exchange Commission, nor shall such information be incorporated by reference into any future filing under the Securities Act of 1933 or Securities Exchange Act of 1934, each as amended, except to the extent that the Company specifically incorporates it by reference into such filing.

The graph below compares the yearly change in cumulative total shareholder return of the Company’s common stock with the cumulative total return of the Standard & Poor’s (S&P’s) 500 Stock Composite Index and a Peer Group. The Company believes that its core business consists of purifying air, water and other products. As such, the Company uses a comparative peer group benchmark. The companies included in the group are BHA Group Holdings Inc. (2004), Cuno, Inc.(2004-2005), Ionics, Inc. (2004-2005), Clarcor, Inc., Donaldson Co. Inc., Esco Technologies Inc., Flanders Corp., Lydall, Inc., Millipore Corp., and Pall Corp. BHA Group Holdings Inc., Cuno, Inc., and Ionics, Inc. were acquired during the time period between 2004 and 2005. The data for these companies is included from the year 2004 until the point at which they were acquired and their common stock ceased to be publicly traded.

*Assumes that the value of the investment in Calgon Carbon Common Stock and the index and Peer Group was \$100 on December 31, 2003 and that all dividends are reinvested.

Issuer Repurchases of Equity Securities

| Period | Total Number of Shares Purchased (a) | Average Price Paid Per Share | Total Number of Shares Purchased as Part of Publicly Announced Repurchase Plans or Programs | Maximum Number (or Approximate Dollar Value) of Shares that May Yet be Purchased Under the Plans or Programs |
|--------------------------------|--------------------------------------|------------------------------|---|--|
| October 1 – October 31, 2008 | — | — | — | — |
| November 1 – November 30, 2008 | 23,730 | \$ 15.11 | — | — |
| December 1 – December 31, 2008 | — | — | — | — |

(a) This column includes purchases under Calgon Carbon's Stock Option Plan which represented withholding taxes due from employees relating to the restricted share awards issued. Future purchases under this plan will be dependent upon employee elections and forfeitures.

Item 6. Selected Financial Data:

FIVE-YEAR SUMMARY OF SELECTED FINANCIAL DATA

Calgon Carbon Corporation

| (Dollars in thousands, except per share data) | 2008(5) | 2007 | 2006(4) | 2005 | 2004(3) |
|--|------------|------------|------------|-------------|------------|
| Income Statement Data: | | | | | |
| Net sales | \$ 400,270 | \$ 351,124 | \$ 316,122 | \$ 290,835 | \$ 295,877 |
| Income (loss) from continuing operations | \$ 35,564 | \$ 15,453 | \$ (9,012) | \$ (10,507) | \$ 3,968 |
| Income (loss) from continuing operations per common share, basic | \$ 0.80 | \$ 0.39 | \$ (0.23) | \$ (0.27) | \$ 0.10 |
| Income (loss) from continuing operations per common share, diluted | \$ 0.67 | \$ 0.31 | \$ (0.23) | \$ (0.27) | \$ 0.10 |
| Cash dividends declared per common share | \$ - | \$ - | \$ - | \$ 0.09 | \$ 0.12 |

Balance Sheet Data (at year end):

| | | | | | |
|----------------|------------|--------------|------------|------------|------------|
| Total assets | \$ 387,596 | \$ 348,140 | \$ 322,364 | \$ 347,868 | \$ 363,898 |
| Long-term debt | \$ -(1) | \$ 12,925(2) | \$ 74,836 | \$ 83,925 | \$ 84,600 |

(1) Excludes \$8.7 million of debt which is classified as current. See Note 8 to the Consolidated Financial Statements for further information.

(2) Excludes \$62.5 million of debt which is classified as current. See Note 8 to the Consolidated Financial Statements for further information.

(3) Includes the February 2004 acquisition of Waterlink Specialty Products.

(4) Includes the gain from insurance settlement and the goodwill impairment charge of \$8.1 million and \$6.9 million, respectively. See Notes 2 and 6 to the Consolidated Financial Statements for further information.

(5) Includes the gain on AST Settlement of \$9.3 million. See Note 17 to the Consolidated Financial Statements for further information.

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

Overview

Although overall economic conditions declined throughout the world in 2008, demand for the Company's activated carbon products and services continued to remain strong. Going forward, this is an area of uncertainty for the Company. The Company will continue to monitor the markets it serves and take appropriate actions in order to attempt to minimize the effect of any slowdown.

The Company reported net income of \$38.4 million or \$0.72 per diluted share, as compared to a net income of \$15.3 million, or \$0.31 per diluted share for 2007. Net sales increased 14.0% to \$400.3 million for 2008 from \$351.1 million for 2007. Selling, general and administrative expenses increased 4.6% as compared to 2007, primarily due to higher legal expenses related to the administrative review of the Department of Commerce's April 2007 anti-dumping order on certain activated carbon products from China. Also in 2008, the Company successfully concluded the AST litigation which began in 1998 and settled for the receipt of \$9.3 million, pre-tax, which was recorded as a gain from operations in 2008. The Company was also able to reduce debt by \$66.6 million to its lowest level since 1995, primarily as a result of the conversion, into common stock, of a substantial portion of the Company's Senior Convertible Notes ("Notes").

The Company also recorded income of \$2.8 million, net of tax, for the final adjustment related to the 2006 sale of its Charcoal/Liquid business and has presented it as income from discontinued operations within its financial statements for the year ended December 31, 2008.

Results of Operations

2008 Versus 2007

Continuing Operations:

Consolidated net sales increased in 2008 compared to 2007 by \$49.1 million or 14.0%. Sales increased in the Activated Carbon and Service segment by \$46.7 million or 15.8%. The increase was primarily due to higher pricing in all markets as well as increased demand in the food, environmental air treatment, and potable water markets. Foreign currency translation had a positive impact of \$2.2 million. Sales in the Equipment segment increased approximately \$6.0 million or 14.4%. The increase was principally due to higher demand for ultraviolet light systems used for the disinfection of drinking water and carbon adsorption systems of approximately \$6.3 million collectively. Partially offsetting this increase was a decrease in demand for ISEP® systems of \$0.7 million. Foreign currency translation had a positive impact of \$0.2 million. Sales for the Consumer segment decreased by \$3.5 million or 24.9% due to shipment delays related to performance issues with new production equipment that limited the output of activated carbon cloth, decreased demand for activated carbon cloth and PreZerve® products, and the negative impact of foreign currency translation of \$0.5 million. The total sales increase for all segments attributable to the effect of foreign currency translation was \$1.9 million.

Net sales less cost of products sold, as a percent of net sales, was 33.3% in 2008 compared to 31.0% in 2007, an increase of 2.3%. The increase was primarily from the Activated Carbon and Service segment which was 33.8% in 2008 versus 31.0% in 2007, an increase of 2.8%. The increase was principally due to higher selling prices of certain activated carbon products and service. The Equipment segment was 30.6% in 2008 versus 27.7% in 2007, an increase of 2.9%. The increase was primarily due to the Company's movement to standardized product offerings and a more selective bid process. The Consumer segment reported 30.1% in 2008 versus 39.8% in 2007, a decline of 9.7% primarily due to competitive pricing pressure and manufacturing inefficiencies at its activated carbon cloth facility. The Company's cost of products sold excludes depreciation; therefore it may not be comparable to that of other companies.

Depreciation and amortization decreased by \$0.5 million or 3.3% in 2008 as compared to 2007 primarily due to an increase in fully depreciated fixed assets.

Selling, general and administrative expenses increased by \$2.8 million or 4.6% in 2008. The increase was principally due to higher legal expenses which were primarily related to the administrative review of the Department of Commerce's April 2007 anti-dumping order on certain activated carbon products from China as well as increased employee related expense. On a segment basis, selling, general and administrative expenses increased in 2008 by approximately \$3.8 million in the Activated Carbon and Service segment which was primarily related to the aforementioned legal expenses and employee related expenses. Selling, general and administrative expenses for the Equipment segment decreased by approximately \$0.9 million primarily due to decreased litigation expense related to the completion of the AST litigation and such expenses were comparable for the Consumer segment year over year.

Research and development expenses increased by \$0.4 million or 11.6%. The increase was primarily due to an increase in both employee related expenses and laboratory testing services related to mercury removal from flue gas.

The \$9.3 million gain on AST settlement for 2008 relates to the resolution of a lawsuit involving the Company's purchase of the common stock of Advanced Separation Technologies Inc. ("AST") in 1996 (See Note 17).

Other expense – net increased in 2008 versus 2007 by \$1.3 million or 87.6% primarily due to non-recurring costs associated with the conversion of a portion of the Notes as well as the negative impact of foreign exchange.

Interest income was comparable in 2008 versus 2007.

Interest expense decreased \$1.8 million or 33.3% as a result of the conversion of a substantial portion of the aforementioned Notes and the effect of capitalized interest due to increased capital spending in 2008.

Income tax expense from continuing operations for 2008 was \$18.1 million as compared to \$7.8 million in 2007. The effective tax rate for 2008 was 34.3% compared to 36.7% in 2007. In 2008, the Company was able to use a portion of its 2008 foreign tax credits which eliminated the need for a corresponding valuation allowance; as compared to 2007, in which all foreign tax credits were subject to a valuation allowance of 65%. This caused the Company's effective tax rate to be 4.4% lower than the 2007 effective tax rate. The 2008 effective tax rate also decreased 3.3% versus 2007 due to increased income in foreign jurisdictions where the tax rate was lower than the U.S. rate. In 2007, the Company benefited from deferred tax related adjustments for changes in tax rates which lowered the 2007 effective tax rate 5.2%. The 2008 effective tax rate also increased compared to 2007 by 0.4% due to a change in the mix of states in which the Company operated.

Equity in income of equity investments decreased in 2008 versus 2007 by \$1.1 million. The decrease was principally due to higher product costs realized in 2008 by the Company's joint venture with Calgon Mitsubishi Chemical Corporation in Japan.

Discontinued Operations:

Income from discontinued operations was \$2.8 million as compared to a loss from discontinued operations of \$0.2 million in 2007. The 2008 results include the final adjustment to the contingent consideration received from the sale of the Company's Charcoal/Liquid business that was sold in the first quarter of 2006 (See Note 3).

2007 Versus 2006

Consolidated net sales increased in 2007 compared to 2006 by \$35.0 million or 11.1%. Sales increased in the Activated Carbon and Service segment by \$30.3 million or 11.4%. The increase was primarily due to higher pricing for certain activated carbon products and services. Increased demand as well as higher pricing in the industrial process and environmental air treatment markets of \$3.9 million and \$15.5 million, respectively, also contributed to the increase. Foreign currency translation had a positive impact of \$8.3 million. Sales in the Equipment segment increased approximately \$3.4 million or 9.1%. The increase was principally due to higher demand for the Company's UV and municipal odor equipment of approximately \$5.0 million collectively. Partially offsetting this increase was a decrease in demand for traditional carbon adsorption equipment of \$1.2 million. Foreign currency translation had a positive impact of \$0.2 million. Sales for the Consumer segment increased by \$1.2 million or 9.5% due to higher demand for activated carbon cloth and the positive impact of foreign currency translation of \$0.8 million. The total sales increase for all segments attributable to the effect of foreign currency translation was \$9.3 million.

Net sales less cost of products sold, as a percent of net sales, was 31.0% in 2007 compared to 25.1% in 2006, an increase of 5.9%. The increase was primarily from the Activated Carbon and Service segment which was 31.0% in 2007 versus 23.8% in 2006, an increase of 7.2%. The increase was principally due to higher pricing of certain activated carbon products and service. The Equipment segment was 27.7% in 2007 versus 29.9% in 2006, a 2.2% decline which was primarily related to an increase in manufacturing related costs. The Consumer segment reported 39.8% in 2007 versus 38.0% in 2006, an increase of 1.8% primarily due to volume for higher value activated carbon cloth. The Company's cost of products sold excludes depreciation; therefore it may not be comparable to that of other companies.

Depreciation and amortization decreased by \$1.7 million or 8.9% in 2007 as compared to 2006 primarily due to an increase in fully depreciated fixed assets.

Selling, general and administrative expenses decreased by \$0.7 million or 1.1% in 2007. The decline was primarily due to a decrease in litigation expense of \$6.9 million which was principally related to the substantial completion of the Company's UV patent cases and anti-dumping petition for steam activated carbon imports from China. Partially offsetting this decrease was an increase in employee related expenses of \$1.1 million, \$0.6 million of bad debt expense, and \$3.3 million of professional service fees principally related to accounting, tax, and Sarbanes-Oxley compliance and planning projects. The 2006 period included a \$1.3 million reduction related to the change in estimate of the Company's environmental liabilities assumed in the 2004 Waterlink acquisition. On a segment basis, selling, general and administrative expenses increased in 2007 by approximately \$2.9 million in the Activated Carbon and Service segment which was primarily related to higher employee related expenses. The 2006 period included the aforementioned \$1.3 million reduction in the Company's environmental liabilities. Selling, general and administrative expenses for the Equipment segment decreased by approximately \$3.6 million primarily due to decreased litigation expense related to the substantial completion of the UV patent cases and were comparable for the Consumer segment year over year.

Research and development expenses decreased by \$0.5 million or 12.9%. The decrease was primarily due to a reduction in employee related expenses.

The gain from insurance settlement of \$8.1 million in 2006 related to the claim for damage to the Company's Pearlinton, Mississippi plant which was caused by Hurricane Katrina in 2005.

The Company recorded a \$6.9 million impairment charge in 2006 related to the goodwill associated with the Company's UV reporting unit of its Equipment segment which is more fully described in Note 6 to the financial statements.

Interest income increased in 2007 versus 2006 by \$0.9 million or 106.2% primarily as a result of the Company's higher cash balance carried throughout 2007.

Interest expense decreased in 2007 versus 2006 by \$0.5 million or 7.8% as a result of lower average borrowing levels and lower average interest rates paid on the Company's borrowings in 2007 versus 2006.

Other expense – net decreased in 2007 versus 2006 by \$0.8 million or 34.8% primarily due to the write-off of deferred financing fees associated with the Company's former credit facility that occurred in 2006.

Income tax expense from continuing operations for 2007 was \$7.8 million as compared to a tax benefit of \$2.7 million for 2006. The effective tax rate for 2007 was 36.7% compared to a rate of 22.4% for 2006. The overall increase in tax expense was caused by pre-tax earnings in 2007 compared to the pre-tax loss incurred in 2006. The effective tax rate in 2006 was significantly impacted by a non-deductible goodwill charge which caused the Company's 2006 effective tax rate to differ from the U.S. Federal statutory rate of 35% by 17.1%. During 2007, the overall tax rate did not differ significantly from the Federal statutory rate.

In part due to an overall foreign loss, the Company was unable to use its foreign tax credits and has recorded a valuation allowance related to them which, on a net basis, caused the overall tax rate to increase by 4.9% in 2007. In addition, the Company received a dividend from its Japanese joint venture which increased the tax rate by 3.5%. The Company's 2007 rate was favorably impacted by lower statutory tax rates in its foreign jurisdictions as well as other deferred tax rate adjustments.

Equity in income of equity investments increased in 2007 versus 2006 by \$1.7 million. The increase was principally due to lower cost of products sold and a favorable mix for products sold by the Company's joint venture with Calgon Mitsubishi Chemical Corporation in Japan.

Discontinued Operations:

Loss from discontinued operations was \$0.2 million as compared to income from discontinued operations of \$1.2 million in 2006. The 2006 results include a \$1.7 million gain, net of tax, related to the 2006 sales of the Company's Charcoal/Liquid and Solvent Recovery businesses.

Working Capital and Liquidity

Cash flows provided by operating activities were \$25.6 million for the year ended December 31, 2008 as compared to \$29.4 million for the year ended December 31, 2007. The \$3.8 million decrease was primarily due to unfavorable working capital changes of \$24.4 million (exclusive of debt) partially offset by improved operating results of \$23.1 million, including the net \$5.7 million impact of the AST settlement (See Note 17).

Total debt at December 31, 2008 was \$10.4 million, a decrease of \$66.6 million from December 31, 2007. The decrease was primarily the result of the conversion of a substantial portion of the Company's Senior Convertible Notes as described below.

5.00% Convertible Senior Notes due 2036

On August 18, 2006, the Company issued \$75.0 million in aggregate principal amount of 5.00% Notes due in 2036 (the "Notes"). The Notes accrue interest at the rate of 5.00% per annum which is payable in cash semi-annually in arrears on each February 15 and August 15, which commenced February 15, 2007. The Notes will mature on August 15, 2036.

The Notes can be converted under the following circumstances: (1) during any calendar quarter (and only during such calendar quarter) commencing after September 30, 2006, if the last reported sale price of the Company's common stock is greater than or equal to 120% of the conversion price of the Notes for at least 20 trading days in the period of 30 consecutive trading days ending on the last trading day of the preceding calendar quarter; (2) during the five business day period after any 10 consecutive trading-day period (the "measurement period") in which the trading price per Note for each day in the measurement period was less than 103% of the product of the last reported sale price of the Company's common stock and the conversion rate on such day; or (3) upon the occurrence of specified corporate transactions described in the Offering Memorandum. On or after June 15, 2011, holders may convert their Notes at any time prior to the maturity date. Upon conversion, the Company will pay cash and shares of its common stock, if any, based on a daily conversion value (as described herein) calculated on a proportionate basis for each day of the 25 trading-day observation period.

For all of the quarterly periods during the years ended December 31, 2008 and 2007, the last reported sale price of the Company's common stock was greater than 120% of the conversion price of the Notes for at least 20 trading days in the period of 30 consecutive trading days ending on the last trading day of each of the aforementioned quarterly periods. As a result, the holders of the Notes have had the right to convert the Notes into cash and shares of common stock throughout 2008. During the period of August 20, 2008 through November 10, 2008, the Company converted and exchanged \$69.0 million of the Notes for cash of \$11.0 million and approximately 13.0 million shares of its common stock. Three million of the shares exchanged for principal amount of the Notes (in lieu of cash) were not previously included in the Company's diluted shares.

Due to the conversion rights of the holders of the Notes, the Company has classified the remaining principal amount of outstanding Notes as a current liability as of December 31, 2008.

The initial conversion rate is 196.0784 shares of the Company's common stock per \$1,000 principal amount of Notes, equivalent to an initial conversion price of approximately \$5.10 per share of common stock. The conversion rate is subject to adjustment in some events, including the payment of a dividend on the Company's common stock, but will not be adjusted for accrued interest, including any additional interest. In addition, following certain fundamental changes (principally related to changes in control) that occur prior to August 15, 2011, the Company will increase the conversion rate for holders who elect to convert Notes in connection with such fundamental changes in certain circumstances. The Company considered EITF 00-27 issue 7 which indicates that if a reset of the conversion rate due to a contingent event occurs, the Company would need to calculate if there is a beneficial conversion and record if applicable. Through December 31, 2008, no contingent events occurred.

The Company may not redeem the Notes before August 20, 2011. On or after that date, the Company may redeem all or a portion of the Notes at any time. Any redemption of the Notes will be for cash at 100% of the principal amount of the Notes to be redeemed, plus accrued and unpaid interest, including any additional interest, to, but excluding, the redemption date.

Holders may require the Company to purchase all or a portion of their Notes on each of August 15, 2011, August 15, 2016, and August 15, 2026. In addition, if the Company experiences specified types of fundamental changes, holders may require it to purchase the Notes. Any repurchase of the Notes pursuant to these provisions will be for cash at a price equal to 100% of the principal amount of the Notes to be purchased plus any accrued and unpaid interest, including any additional interest, to, but excluding, the purchase date.

The Notes are the Company's senior unsecured obligations, and rank equally in right of payment with all of its other existing and future senior indebtedness. The Notes are guaranteed by certain of the Company's domestic subsidiaries on a senior unsecured basis. The subsidiary guarantees are general unsecured senior obligations of the subsidiary guarantors and rank equally in right of payment with all of the existing and future senior indebtedness of the subsidiary guarantors. If the Company fails to make payment on the Notes, the subsidiary guarantors must make them instead. The Notes are effectively subordinated to any indebtedness of the Company's non-guarantor subsidiaries. The Notes are effectively junior to all of the Company's existing and future secured indebtedness to the extent of the value of the assets securing such indebtedness.

The Company sold the Notes to the original purchaser at a discount of \$3.3 million that is being amortized over a period of five years. The Company incurred original issuance costs of \$0.5 million which have been deferred and are being amortized over a five year period. The Company reclassified \$1.9 million of the discount and \$0.3 million of issuance costs to additional paid in capital as a result of the aforementioned conversions and exchanges of Notes that occurred during the year ended December 31, 2008. The Company will continue to amortize the respective remaining balances over the remainder of the five year period or the date of conversion/exchange, if sooner. For the year ended December 31, 2008, the Company recorded interest expense of \$3.2 million related to the Notes, of which \$0.5 million related to the amortization of the discount.

Credit Facility

On August 14, 2008, the Company entered into a third amendment to its Credit Facility (the "Third Amendment"). The Third Amendment permits borrowings in an amount up to \$60.0 million and includes a separate U.K. sub-facility and a separate Belgian sub-facility. The Credit Facility permits the total revolving credit commitment to be increased up to \$75.0 million. The facility matures on May 15, 2011. Availability for domestic borrowings under the Credit Facility is based upon the value of eligible inventory, accounts receivable and property, plant and equipment, with separate borrowing bases to be established for foreign borrowings under a separate U.K. sub-facility and a separate Belgian sub-facility. Availability under the Credit Facility is conditioned upon various customary conditions.

The Credit Facility is secured by a first perfected security interest in substantially all of the Company's assets, with limitations under certain circumstances in the case of capital stock of foreign subsidiaries. Certain of the Company's domestic subsidiaries unconditionally guarantee all indebtedness and obligations related to domestic borrowings under the Credit Facility. The Company and certain of its domestic subsidiaries also unconditionally guarantee all indebtedness and obligations under the U.K. sub-facility.

As of December 31, 2008, the collateral value of assets pledged was \$57.2 million. The collateral value as of December 31, 2008 for domestic, U.K., and Belgian borrowers were \$46.9 million, \$4.8 million, and \$5.5 million, respectively. The Credit Facility contains a fixed charge coverage ratio covenant which becomes effective when total domestic availability falls below \$11.0 million. As of December 31, 2008, total availability was \$45.6 million. Availability as of December 31, 2008 for domestic, U.K., and Belgian borrowers was \$38.3 million, \$3.7 million, and \$3.6 million, respectively. The Company can issue letters of credit up to \$20 million of the available commitment amount under the Credit Facility. Sub-limits for letters of credit under the U.K. sub-facility and the Belgian sub-facility are \$2.0 million and \$6.0 million, respectively. Letters of credit outstanding at December 31, 2008 totaled \$11.6 million.

The Credit Facility interest rate is based upon Euro-based ("LIBOR") rates with other interest rate options available. The applicable Euro Dollar margin in effect when the Company is in compliance with the terms of the facility ranges from 1.50% to 2.50% and is based upon the Company's overall availability under the Credit Facility. The unused commitment fee is equal to 0.375% per annum, which can increase to 0.50%, and is based upon the unused portion of the revolving commitment.

The Credit Facility contains a number of affirmative and negative covenants. As of December 31, 2008, the last reported sale price of the Company's common stock was greater than 120% of the conversion price of the Notes for at least 20 trading days in the period of 30 consecutive trading days ended December 31, 2008. As a result, as of December 31, 2008, the holders of the Notes have the right to convert the Notes into cash and shares of common stock. Included in the Credit Facility is a provision which permits the conversion of the outstanding amount of the Company's Notes. The Credit Facility also includes a provision for up to \$3.0 million of letters of credit in aggregate under the Company's U.S., Belgium, and UK sub-limits that can be issued having expiration dates that are more than one year but not more than three years after the date of issuance.

The negative covenants provide for certain restrictions on possible acts by the Company related to matters such as additional indebtedness, certain liens, fundamental changes in the business, certain investments or loans, asset sales and other customary requirements. The Company was in compliance with all such negative covenants as of December 31, 2008.

Contractual Obligations

The Company is obligated to make future payments under various contracts such as debt agreements, lease agreements, and unconditional purchase obligations. The Company is contractually obligated to make monthly, quarterly, and semi-annual interest payments on its outstanding debt agreements. At December 31, 2008, the weighted average effective interest rate was 4.48% and current portion of long-term borrowings totaled \$8.8 million. The Company is also required to make minimum funding contributions to its pension plans which are estimated at \$2.8 million for the year ended December 31, 2009. The following table represents the significant contractual cash obligations and other commercial commitments of the Company as of December 31, 2008.

| (Thousands) | 2009 | 2010 | Due in 2011 | 2012 | 2013 | Thereafter | Total |
|--|-----------|-----------|----------------|----------|----------|------------|------------|
| Short-term debt | \$ 1,605 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1,605 |
| Current portion of long-term debt* | 2,925 | - | 5,851 | - | - | - | 8,776 |
| Interest on Notes | 325 | 325 | 190 | - | - | - | 840 |
| Operating leases | 5,727 | 5,097 | 4,515 | 4,247 | 3,765 | 7,783 | 31,134 |
| Unconditional purchase obligations** | 26,175 | 25,600 | 23,318 | 1,575 | 1,575 | 263 | 78,506 |
| Total contractual cash obligations | \$ 36,757 | \$ 31,022 | \$ 33,874 | \$ 5,822 | \$ 5,340 | \$ 8,046 | \$ 120,861 |

*The 2011 maturity excludes debt discount of \$149. This amount is classified as currently payable at December 31, 2008. See Note 8.

**Primarily for the purchase of raw materials, transportation, and information systems services.

The long-term tax payable of \$13.1 million, pertaining to the tax liability related to FASB Interpretation No. 48, "Accounting for Uncertainty in Income Taxes, an interpretation of FASB Statement No. 109" ("FIN No. 48"), has been excluded from the above table due to the fact that the Company is unable to determine the period in which the liability will be resolved.

The Company does not have any special-purpose entities or off-balance sheet financing arrangements except for the operating leases disclosed above as well as the indemnities and guarantees disclosed in Note 17.

The Company maintains qualified defined benefit pension plans (the “Qualified Plans”), which cover substantially all non-union and certain union employees in the United States and Europe. The Company’s pension expense for all pension plans approximated \$2.0 million and \$2.4 million for the years ended December 31, 2008 and 2007, respectively. The Company expects its 2009 pension expense to be \$5.4 million. The increase from 2008 is primarily as a result of investment losses realized in 2008.

The fair value of the Company’s Qualified Plan assets has decreased from \$88.9 million at December 31, 2007 to \$64.5 million at December 31, 2008. The Pension Protection Act, passed into law in August 2006, prescribes a new methodology for determining the minimum amount that must be contributed to defined benefit pension plans in 2008. During the year ended December 31, 2008, the Company funded its Qualified Plans with \$6.2 million in contributions of which \$3.1 million was made voluntarily by the Company. The Company expects that it will be required to fund the Qualified Plans with approximately \$2.8 million in contributions for the year ending December 31, 2009. Due primarily as a result of negative investment returns in 2008, the Company may make additional contributions to its Qualified Plans in 2009 beyond the required funding. Additional voluntary contributions would be dependent upon, among other things, the Company’s ongoing operating results and liquidity.

The Company did not declare or pay any dividends in 2008. Dividend declaration and payout are at the discretion of the Board of Directors. Future dividends will depend on the Company’s earnings, cash flow and capital investment plans to pursue long-term growth opportunities. The Company’s Credit Facility contains covenants which include limitations on its ability to declare or pay cash dividends or make other restricted payments, subject to certain exceptions, such as dividends declared and paid by its subsidiaries and cash dividends paid by the Company in an amount not to exceed \$6.0 million in the aggregate during any fiscal year if certain conditions are met.

Capital Expenditures and Investments

Capital expenditures were \$34.9 million in 2008 (with \$1.9 million of this amount reflected as a non-cash increase in accounts payable and accrued liabilities), \$11.8 million in 2007, and \$12.9 million in 2006. Expenditures for 2008 primarily included \$29.3 million for improvements to manufacturing facilities including approximately \$13.0 million related to the planned 2009 re-start of a previously idled production line, \$3.0 million for customer capital, and \$1.8 million related to improvements to information systems. Expenditures for 2007 primarily included \$8.4 million for improvements to manufacturing facilities and \$3.3 million for customer capital. Expenditures for 2006 primarily included \$9.3 million for improvements to manufacturing facilities, \$2.2 million related to the repair of the Company’s Pearl River plant as a result of Hurricane Katrina, and \$1.0 million for customer capital. Capital expenditures for 2009 are projected to be approximately \$55.0 million to \$60.0 million. The aforementioned expenditures are expected to be funded by operating cash flows, cash on hand, and borrowings.

Other cash flows from investing activities include the receipt of \$21.3 million in 2006 for the sale of the Charcoal/Liquid and Solvent Recovery businesses and the 2006 receipt of \$4.6 million in connection with the insurance settlement for damage caused to the Company’s Pearlington, Mississippi plant by Hurricane Katrina. Proceeds for sales of property, plant and equipment totaled \$0.9 million in 2008 compared to \$0.5 million in 2007, and \$1.2 million in 2006.

The Company expects that cash from operating activities plus cash balances and available external financing will be sufficient to meet its cash requirements. The cash needs of each of the Company's reporting segments are principally covered by the segment's operating cash flow on a stand alone basis. Any additional needs will be funded by cash on hand or borrowings under the Company's Credit Facility. Specifically, the Equipment and Consumer segments historically have not required extensive capital expenditures; therefore, the Company believes that operating cash flows, cash on hand, and borrowings will adequately support each of the segments cash needs.

Other

On March 8, 2006, the Company and another U.S. producer of activated carbon formally requested that the United States Department of Commerce investigate unfair pricing of certain activated carbon imported from the People's Republic of China. The Commerce Department investigated imports of activated carbon from China that is thermally activated using a combination of heat, steam and/or carbon dioxide. Certain types of activated carbon from China, most notably chemically-activated carbon, were not investigated.

On March 2, 2007, the Commerce Department published its final determination (subsequently amended) that all of the subject merchandise from China was being unfairly priced, or dumped, and thus that special additional duties should be imposed to offset the amount of the unfair pricing. The final margins of dumping ranged from 61.95 percent ad valorem (i.e., of the entered value of the goods) to 228.11 percent ad valorem. A formal order imposing final duties was published on April 27, 2007. All imports from China remain subject to the order and antidumping duties. Importers of subject activated carbon from China are required to make cash deposits of estimated antidumping duties at the time the goods are entered into the United States customs territory. Deposits of duties are subject to future revision based on retrospective reviews conducted by the Commerce Department. With one limited exception, the amount of duties owed can decrease or increase based on the government's subsequent review of the actual prices at which the entries were sold.

The Company is both a domestic producer and one of the largest U.S. importers (from our wholly-owned subsidiary Calgon Carbon (Tianjin) Co., Ltd.) of the activated carbon that is subject to this proceeding. As such, the Company is active both as a domestic producer (a "petitioner") and as a foreign exporter (a "respondent") before the Commerce Department. The Company is represented by separate counsel in each of these roles and has actively participated throughout the proceeding.

As one of two U.S. producers involved in the case, the Company is actively involved in ensuring the Commerce Department obtains the most accurate information from the foreign producers and exporters involved in the review, in order to calculate the most accurate results and margins of dumping for the sales at issue.

As an importer of activated carbon from China and in light of the successful antidumping duty case, the Company was required to pay deposits of estimated antidumping duties in the amount of 84.45 percent ad valorem to the Bureau of Customs and Border Protection ("Customs") on entries made on or after October 11, 2006 through April 9, 2007. Thereafter, deposits have been paid at 69.54 percent. Because of limits on the government's legal authority to impose provisional duties prior to issuance of a final determination, entries made between April 9, 2007 and April 19, 2007 were not subject to duties.

The Company's role as an importer that is required to pay duties results in a contingent liability related to the final amount of duties that will be paid. The Company has made deposits of estimated duties in two ways. First, estimated duties on entries in the period from October 11, 2006 through April 9, 2007 were covered by a bond. The total amount of duties that can be paid on entries in this period is capped as a matter of law, though the Company may receive a refund with interest of any difference due to a reduction in the actual margin of dumping found in the first review. The Company's estimated liability for duties during this period of \$0.8 million is reflected in accounts payable and accrued liabilities on the consolidated balance sheets at December 31, 2008 and 2007. Second, the Company has been required to post cash deposits of estimated duties owed on entries of subject merchandise since April 19, 2007. The final amount of duties owed on these entries may change, and can either increase or decrease depending on the final results of relevant administrative inquiries. This process is briefly described below.

As noted above, following the entry of merchandise, the amount of estimated antidumping duties paid is subject to later review and adjustment based on the actual amount of dumping that is found. To do this, the Commerce Department conducts annual reviews of sales made to the first unaffiliated U.S. customer, typically over the prior 12 month period. These reviews will be possible for at least five years, and can result in changes to the antidumping duty rate (either increasing or reducing the rate) applicable to any given foreign exporter. Revision of the margin of dumping has two effects. First, it will alter the actual amount of duties that Customs will seek to collect, by either increasing or decreasing the amount to reflect the actual amount of dumping that was found. Where the actual amount of duties owed increases, the government will require payment of the difference plus interest. Conversely, when the duty rate decreases, any difference is refunded with interest. Second, the revised rate becomes the cash deposit rate applied to future entries, and as such can either increase or decrease the amount of deposits an importer will be required to pay.

The Company currently is in the midst of the first such review. Because it is the first review conducted under the antidumping duty order, the review covers the period from October 11, 2006 through March 31, 2008 instead of the typical 12 month period. The preliminary results of the review are due no later than March 31, 2009, and the review must be completed no later than November 3, 2009. At this time, data submitted by the Company as well as others is continuing to be reviewed by Customs. Because there are multiple factors that will influence the final results, the Company is unable to estimate what, if any, adjustments to the current deposit rate will occur or the amount of additional deposits or refunds the Company may owe or receive, respectively.

Related to this, in early April 2009, the Commerce Department will publish a formal notice allowing parties to request the second annual administrative review of the antidumping duty order. Requests for review will be due no later than April 30, 2009. The Company currently anticipates participating in the second review.

The contingent liability resulting from duties paid on imports is somewhat mitigated by two factors. First and foremost, the antidumping duty order's disciplinary effect on the market encourages the elimination of dumping through fair pricing, and thus tends to provide the Company the ability to obtain an improved return on its investment and operations. Separately, pursuant to the Continued Dumping and Subsidy Offset Act of 2000 (repealed effective Feb. 8, 2006), as an affected domestic producer, the Company is eligible to apply for a distribution of a share of certain duties collected on entries of subject merchandise from China from April 27, 2007 to September 30, 2007. In July 2008, the Company applied for such a distribution. In December 2008, the Company received a distribution of approximately \$0.2 million, which reflected 59.57 percent of the total amount available. The Company anticipates receiving additional amounts in 2009 and future years, though the exact amount is impossible to determine.

Critical Accounting Policies

Management of the Company has evaluated the accounting policies used in the preparation of the financial statements and related footnotes and believes the policies to be reasonable and appropriate. The preparation of the financial statements in accordance with accounting principles generally accepted in the United States requires management to make judgments, estimates, and assumptions regarding uncertainties that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities, and the reported amounts of revenues and expenses. Management uses historical experience and all available information to make these judgments and estimates, and actual results will inevitably differ from those estimates and assumptions that are used to prepare the Company's financial statements at any given time. Despite these inherent limitations, management believes that Management's Discussion and Analysis ("MD&A") and the financial statements and related footnotes provide a meaningful and fair perspective of the Company.

The following are the Company's critical accounting policies impacted by management's judgments, assumptions, and estimates. Management believes that the application of these policies on a consistent basis enables the Company to provide the users of the financial statements with useful and reliable information about the Company's operating results and financial condition.

Revenue Recognition

The Company recognizes revenue and related costs when goods are shipped or services are rendered to customers provided that ownership and risk of loss have passed to the customer.

Revenue for major equipment projects is recognized under the percentage of completion method. The Company's major equipment projects generally have a long project life cycle from bid solicitation to project completion. The nature of the contracts are generally fixed price with milestone billings. The Company recognizes revenue for these projects based on the fixed sales prices multiplied by the percentage of completion. In applying the percentage-of-completion method, a project's percent complete as of any balance sheet date is computed as the ratio of total costs incurred to date divided by the total estimated costs at completion. As changes in the estimates of total costs at completion and/or estimated total losses on projects are identified, appropriate earnings adjustments are recorded during the period that the change or loss is identified. The Company has a history of making reasonably dependable estimates of costs at completion on our contracts that follow the percentage-of-completion method; however, due to uncertainties inherent in the estimation process, it is possible that estimated project costs at completion could vary from our estimates. The principal components of costs include material, direct labor, subcontracts, and allocated indirect costs. Indirect costs primarily consist of administrative labor and associated operating expenses, which are allocated to the respective projects on actual hours charged to the project utilizing a standard hourly rate.

Allowance for Doubtful Accounts

The Company maintains allowances for doubtful accounts for estimated losses resulting from the inability of its customers to make required payments. The amount of allowance recorded is primarily based upon a quarterly review of specific customer receivables that remain outstanding at least three months beyond their respective due dates. The Company's provision for doubtful accounts and loss experience have not varied materially from period to period. However, if the financial condition of the Company's customers were to deteriorate resulting in an impairment of their ability to make payments, additional allowances may be required.

Inventories

The Company's inventories are carried at the lower of cost or market. The Company provides for inventory obsolescence based upon a review of specific products that have remained unsold for a prescribed period of time. If the market demand for various products softens, additional allowances may be required.

Goodwill and Other Intangible Assets

Goodwill represents the excess of the cost of an acquired business over the fair value of the identifiable tangible and intangible assets acquired and liabilities assumed in a business combination. Identifiable intangible assets acquired in business combinations are recorded based on their fair values at the date of acquisition. In accordance with SFAS No. 142, "Goodwill and Other Intangible Assets," goodwill and identifiable intangible assets with indefinite lives are not subject to amortization but must be evaluated for impairment. None of the Company's identifiable intangible assets other than goodwill have indefinite lives.

The Company tests goodwill for impairment at least annually by initially comparing the fair value of each of the Company's reporting units to their related carrying values. If the fair value of the reporting unit is less than its carrying value, the Company performs an additional step to determine the implied fair value of the goodwill. The implied fair value of goodwill is determined by first allocating the fair value of the reporting unit to all of the assets and liabilities of the unit and then computing the excess of the unit's fair value over the amounts assigned to the assets and liabilities. If the carrying value of goodwill exceeds the implied fair value of goodwill, such excess represents the amount of goodwill impairment, and the Company recognizes such impairment accordingly. Fair values are estimated using discounted cash flow and other valuation methodologies that are based on projections of the amounts and timing of future revenues and cash flows, assumed discount rates and other assumptions as deemed appropriate. The Company also considers such factors as historical performance, anticipated market conditions, operating expense trends and capital expenditure requirements.

On November 14, 2006, the Federal Court of Canada found that the Company's patent for the use of UV light to prevent infection from *Cryptosporidium* in drinking water was invalid. As a result, the Company's estimate of future royalties used in determining the fair value of the UV reporting unit as of December 31, 2006 declined substantially from the prior year resulting in goodwill impairment of \$6.9 million. This impairment represents the difference between the implied fair value of goodwill for the UV reporting unit and the carrying value of the goodwill before recognition of the impairment.

The Company's identifiable intangible assets other than goodwill have finite lives. Certain of these intangible assets, such as customer relationships, are amortized using an accelerated methodology while others, such as patents, are amortized on a straight-line basis over their estimated useful lives. In addition, intangible assets with finite lives are evaluated for impairment whenever events or circumstances indicate that their carrying amount may not be recoverable, as prescribed by Statement of Financial Accounting Standards (SFAS) No. 144, "Accounting for the Impairment or Disposal of Long-Lived Assets" ("SFAS No. 144").

Pensions

The Company maintains Qualified Plans which cover substantially all non-union and certain union employees in the United States and Europe. Pension expense, which totaled \$2.0 million in 2008 and \$2.4 million in 2007, is calculated based upon a number of actuarial assumptions, including expected long-term rates of return on our Qualified Plans' assets, which range from 5.00% to 8.00%. In developing the expected long-term rate of return assumption, the Company evaluated input from its actuaries, including their review of asset class return expectations as well as long-term inflation assumptions. The Company also considered historical returns on asset classes, investment mix, and investment manager performance. The expected long-term return on the U.S. Qualified Plans' assets is based on an asset allocation assumption of 68.0% with equity managers, 30.0% with fixed-income managers, and 2% with other investments. The European Qualified Plans' assets are based on an asset allocation assumption of 36.7% with equity managers, 48.3% with fixed-income managers, and 15.0% with other investments. Because of market fluctuation, the Company's actual U.S. asset allocation as of December 31, 2008 was 69.9% with equity managers and 30.1% with fixed-income managers. The Company's actual European asset allocation as of December 31, 2008 was 33.5% with equity managers, 50.7% with fixed-income managers, and 15.8% with other investments. The Company regularly reviews its asset allocation and periodically rebalances its investments to the targeted allocation when considered appropriate. The Company continues to believe that the range of 6.25% to 8.00% is a reasonable long-term rate of return on its Qualified Plans assets. The Company will continue to evaluate its actuarial assumptions, including its expected rate of return, at least annually, and will adjust as necessary.

The discount rates that the Company utilizes for its Qualified Plans to determine pension obligations is based on a review of long-term bonds that receive one of the two highest ratings given by a recognized rating agency. The discount rate determined on this basis has increased from a range of 4.89% to 5.93% at December 31, 2007 to a range of 5.63% to 6.23% at December 31, 2008. The Company estimates that its pension expense for the Qualified Plans will approximate \$5.4 million in 2009. Future actual pension expense will depend on future investment performance, funding levels, changes in discount rates and various other factors related to the populations participating in its Qualified Plans.

A sensitivity analysis of the projected incremental effect of a hypothetical 1 percent change in the significant assumptions used in the pension calculations is provided in the following table:

| (Thousands) | Hypothetical Rate Increase (Decrease) | | | |
|--|---------------------------------------|-------------|------------------------|------------|
| | U.S. Plans (1%) | | European Plans (1%) | |
| | | 1% | | 1% |
| Discount rate | | | | |
| Pension liabilities at December 31, 2008 | \$ 11,622 | \$ (10,136) | \$ 5,429 | \$ (4,350) |
| Pension Costs for the year ended | | | | |
| December 31, 2008 | \$ 401 | \$ (788) | \$ 370 | \$ (289) |
| Indexation | | | | |
| Pension liabilities at December 31, 2008 | \$ - | \$ - | \$ (690) | \$ 759 |
| Pension Costs for the year ended | | | | |
| December 31, 2008 | \$ - | \$ - | \$ (54) | \$ 78 |
| Expected return on plan assets | | | | |
| Pension costs for the year ended | | | | |
| December 31, 2008 | \$ 674 | \$ (674) | \$ 246 | \$ (246) |
| Compensation | | | | |
| Pension liabilities at December 31, 2008 | \$ (847) | \$ 866 | \$ (1,524) | \$ 1,718 |
| Pension costs for the year ended | | | | |
| December 31, 2008 | \$ (188) | \$ 196 | \$ (256) | \$ 320 |

Income Taxes

During the ordinary course of business, there are many transactions and calculations for which the ultimate tax determination is uncertain. Significant judgment is required in determining the Company's annual effective tax rate and in evaluating tax positions. As described in Note 13, on January 1, 2007, the Company adopted FASB Interpretation No. 48, "Accounting for Uncertainty in Income Taxes – an interpretation of FASB Statement No. 109, Accounting for Income Taxes" ("FIN 48"). FIN 48 contains a two-step approach to recognizing and measuring uncertain tax positions accounted for in accordance with SFAS No. 109, "Accounting for Income Taxes." The first step is to evaluate the tax position for recognition by determining if the weight of available evidence indicates that it is more likely than not that the position will be sustained on audit, including resolution of related appeals or litigation processes, if any. The second step is to measure the tax benefit as the largest amount that is more than 50% likely of being realized upon settlement.

Although we believe we have adequately reserved for our uncertain tax positions, no assurance can be given that the final tax outcome of these matters will not be different. We adjust these reserves in light of changing facts and circumstances, such as the closing of a tax audit, the refinement of an estimate, or a lapse of a tax statute. To the extent that the final tax outcome of these matters is different than the amounts recorded, such differences will impact the provision for income taxes in the period in which such determination is made. The provision for income taxes includes the impact of reserve provisions and changes to reserves that are considered appropriate, as well as the related net interest.

The Company is subject to varying statutory tax rates in the countries where it conducts business. Fluctuations in the mix of the Company's income between countries result in changes to the Company's overall effective tax rate.

The Company recognizes benefits associated with foreign and domestic net operating loss and credit carryforwards when the Company believes that it is more likely than not that its future taxable income in the relevant tax jurisdictions will be sufficient to enable the realization of the tax benefits. As of December 31, 2008, the Company had recorded total deferred tax assets of \$35.9 million, of which \$15.0 million (before consideration of a \$8.0 million valuation allowance) represents tax benefits resulting from unused foreign tax credits as well as state NOLs and state tax credits. The foreign tax credits of \$4.3 million, net, can be carried forward 10 years and expire from 2009 through 2018. The Company recorded a valuation allowance of 65% against its foreign tax credits which represents the portion that does not meet the more likely than not threshold of being utilized. State operating loss carryforwards of \$2.4 million, net, expire from 2010 to 2027 of which over 90% will not expire before 2019.

The Company based its conclusions on normalized historical performance and on projections of future taxable income in the relevant tax jurisdictions. Normalized historical performance for purposes of this assessment includes adjustments for those income and expense items that are unusual and non-recurring in nature and are not expected to affect results in future periods. Such unusual and non-recurring items include the effects of discontinued operations, legal fees or settlements associated with specific litigation matters, pension curtailment costs, and restructuring costs. For the three-year period ended December 31, 2008, the Company's normalized historical performance on a cumulative basis, indicated a profit, which supports the likelihood of future federal taxable income. The Company's projections of future taxable income for state purposes consider known events, such as the passage of legislation or expected occurrences, and do not reflect a general growth assumption. Certain major assumptions affecting the income projections relate to government standards, which impact the entire industry. Government regulations are expected to expand market opportunities in both the UV market and the mercury removal market. Also, effective in 2007, the Department of Commerce notified the Company that tariffs ranging from 62% to 228% were imposed on all steam activated carbon products imported from China. The imposition of duties has favorably affected its markets. Incorporation of these known or pending events into the projections of future taxable income results in potentially significant growth in the near term. While management believes the risks associated with these events not occurring may be low, the ultimate impact of the events on the Company's taxable income remains uncertain. For example, if the Company is unable to achieve its projected share of the expanded markets resulting from government regulations or anti-dumping duties, the Company's projected future taxable income may not be realized. For the 15-year period beginning in 2012, which generally represents the period after the impact of the known or pending events has stabilized, the compound annual growth rate of projected taxable income is less than 5%. The Company believes that its assumptions and the resulting projections are reasonable and fully support the recognized deferred tax assets associated with state net operating loss and credit carryforwards.

Approximately 80% of the Company's deferred tax assets, or \$28.8 million, represent temporary differences associated with pensions, accruals, goodwill, and other assets. Over 85% of the Company's deferred tax liabilities of \$13.7 million at December 31, 2008 relate to property, plant and equipment. These temporary differences will reverse in the future due to the natural realization of temporary differences between annual book and tax reporting. The Company believes that the deferred tax liabilities generally will impact taxable income of the same character (ordinary income), timing, and jurisdiction as the deferred tax assets.

Litigation

The Company is involved in various asserted and unasserted legal claims. An estimate is made to accrue for a loss contingency relating to any of these legal claims if it is probable that a liability was incurred at the date of the financial statements and the amount of loss can be reasonably estimated. Because of the subjective nature inherent in assessing the outcome of legal claims and because the potential that an adverse outcome in a legal claim could have a material impact on the Company's legal position or results of operations, such estimates are considered to be critical accounting estimates. The Company will continue to evaluate all legal matters as additional information becomes available. Reference is made to Note 17 of the financial statements for a discussion of litigation and contingencies.

Long-Lived Assets

The Company evaluates long-lived assets under the provisions of Statement of Financial Accounting Standards No. 144, "Accounting for the Impairment or Disposal of Long-Lived Assets" ("SFAS No. 144"), which addresses financial accounting and reporting for the impairment of long-lived assets, and for long-lived assets to be disposed of. For assets to be held and used, the Company groups a long-lived asset or assets with other assets and liabilities at the lowest level for which identifiable cash flows are largely independent of the cash flows of other assets and liabilities. An impairment loss for an asset group reduces only the carrying amounts of a long-lived asset or assets of the group being evaluated. The loss is allocated to the long-lived assets of the group on a pro-rata basis using the relative carrying amounts of those assets, except that the loss allocated to an individual long-lived asset of the group does not reduce the carrying amount of that asset below its fair value whenever that fair value is determinable without undue cost and effort. Estimates of future cash flows used to test the recoverability of a long-lived asset group include only the future cash flows that are associated with and that are expected to arise as a direct result of the use and eventual disposition of the asset group. The future cash flow estimates used by the Company exclude interest charges.

New Accounting Pronouncements

In December 2007, the FASB issued SFAS No. 141 (revised 2007), "Business Combinations" ("SFAS No.141(R)"), which replaces SFAS No. 141, "Business Combinations." SFAS No. 141(R) retains the underlying concepts of SFAS No. 141 in that all business combinations are still required to be accounted for at fair value under the acquisition method of accounting, but SFAS No. 141(R) changes the method of applying the acquisition method in a number of significant aspects. Acquisition costs will generally be expensed as incurred; noncontrolling interests will be valued at fair value at the acquisition date; in-process research and development will be recorded at fair value as an indefinite-lived intangible asset at the acquisition date; restructuring costs associated with a business combination will generally be expensed subsequent to the acquisition date; and changes in deferred tax asset valuation allowances and income tax uncertainties after the acquisition date generally will affect income tax expense. SFAS No. 141(R) is effective on a prospective basis for all business combinations for which the acquisition date is on or after the beginning of the first annual period subsequent to December 15, 2008, with an exception related to the accounting for valuation allowances on deferred taxes and acquired tax contingencies related to acquisitions completed before the effective date. SFAS No. 141(R) amends SFAS No. 109 to require adjustments, made after the effective date of this statement, to valuation allowances for acquired deferred tax assets and income tax positions to be recognized as income tax expense. Beginning January 1, 2009, the Company will apply the provisions of SFAS No. 141(R).

In December 2007, the FASB issued SFAS No. 160 (“SFAS No. 160”), “Noncontrolling Interests in Consolidated Financial Statements.” SFAS No. 160 changes the classification of noncontrolling (minority) interests on the balance sheet and the accounting for and reporting of transactions between the reporting entity and holders of such noncontrolling interests. Under the new standard, noncontrolling interests are considered equity and are to be reported as an element of stockholders’ equity rather than outside of equity in the balance sheet. In addition, the current practice of reporting minority interest expense or benefit also will change. Under the new standard, net income will encompass the total income before minority interest expense. The statement of operations will include separate disclosure of the attribution of income between the controlling and noncontrolling interests. Increases and decreases in the noncontrolling ownership interest amount are accounted for as equity transactions. SFAS No. 160 is effective for fiscal years beginning after December 15, 2008 and earlier application is prohibited. Upon adoption, the balance sheet and the statement of operations should be recast retrospectively for the presentation of noncontrolling interests. The other accounting provisions of the statement are required to be adopted prospectively. The Company adopted SFAS No. 160 as required on January 1, 2009 and the adoption did not have a material impact on its financial position or results of operations.

In March 2008, the FASB issued SFAS No. 161, “Disclosures about Derivative Instruments and Hedging Activities,” which changes the disclosure requirements for derivative instruments and hedging activities. SFAS No. 161 requires enhanced disclosures about (a) how and why an entity uses derivative instruments, (b) how derivative instruments and related hedging items are accounted for under SFAS No. 133, “Accounting for Derivative Instruments and Hedging Activities” and its related interpretations, and (c) how derivative instruments and related hedged items affect an entity’s financial position, financial performance, and cash flows. This statement’s disclosure requirements are effective for fiscal years and interim periods beginning after November 15, 2008. The Company is currently evaluating the effects that SFAS No. 161 may have on its consolidated financial statement disclosures.

In April 2008, the FASB issued FSP SFAS 142-3, “Determination of the Useful Life of Intangible Assets.” FSP SFAS 142-3 amends the factors that should be considered in developing renewal or extension assumptions used to determine the useful life of a recognized intangible asset under SFAS No. 142, “Goodwill and Other Intangible Assets.” Previously, under the provisions of SFAS No. 142, an entity was precluded from using its own assumptions about renewal or extension of an arrangement where there was likely to be substantial cost or material modifications. FSP SFAS 142-3 removes the requirement of SFAS No. 142 for an entity to consider whether an intangible asset can be renewed without substantial cost or material modification to the existing terms and conditions and requires an entity to consider its own experience in renewing similar arrangements. FSP SFAS 142-3 also increases the disclosure requirements for a recognized intangible asset to enable a user of financial statements to assess the extent to which the expected future cash flows associated with the asset are affected by the entity’s intent or ability to renew or extend the arrangement. FSP SFAS 142-3 is effective for fiscal years beginning after December 15, 2008 and interim periods within those fiscal years. Early adoption is prohibited. The guidance for determining the useful life of a recognized intangible asset is applied prospectively to intangible assets acquired after the effective date. Accordingly, the Company does not anticipate that the initial application of FSP SFAS No. 142-3 will have an impact on the Company. The disclosure requirements must be applied prospectively to all intangible assets recognized as of, and subsequent to, the effective date.

In May 2008, the FASB issued FASB Staff Position APB 14-1, "Accounting for Convertible Debt Instruments That May Be Settled in Cash upon Conversion (Including Partial Cash Settlement)" (FSP APB 14-1). FSP APB 14-1 requires the issuer to separately account for the liability and equity components of convertible debt instruments in a manner that reflects the issuer's nonconvertible debt borrowing rate. The guidance will result in companies recognizing higher interest expense in the statement of operations due to amortization of the discount that results from separating the liability and equity components. FSP APB 14-1 is effective for financial statements issued for fiscal years beginning after December 15, 2008 and interim periods within those fiscal years and requires retroactive application to prior financial statements. The Company is still in the process of evaluating the impact that the adoption of FSP APB 14-1 will have on its financial statements. The application of APB 14-1 is not expected to have a material prospective impact on our financial statements.

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

Commodity Price Risk

In the normal course of its business, the Company is exposed to market risk or price fluctuations related to the production of activated carbon products. Coal and natural gas, which are significant to the manufacturing of activated carbon, have market prices that fluctuate regularly. Based on the estimated 2009 usage of coal and natural gas, a hypothetical 10% increase (or decrease) in the price of coal and natural gas, would result in a pre-tax loss (or gain) of \$1.9 million and \$0.9 million, respectively.

To mitigate the risk of fluctuating prices, the Company has entered into long-term contracts to hedge the purchase of a percentage of the estimated need of coal and natural gas at fixed prices. The future commitments under these long-term contracts, which provide economic hedges, are disclosed within Note 9 to the Financial Statements. The value of the cash-flow hedges for natural gas is disclosed in Note 16 to the Financial Statements.

Interest Rate Risk

The Company's short-term and current portion of long-term debt is based on fixed rates, rates that float with the Euro Dollar, or prime, and the carrying value approximates fair value. The Company's senior convertible notes, which represent the majority of the Company's outstanding debt balance at December 31, 2008, are based on a fixed rate and therefore would not be subject to interest rate risk. A hypothetical change of 10% in the Company's effective interest rate from year-end 2008 would not result in a material change to interest expense.

Foreign Currency Exchange Risk

The Company is subject to risk of price fluctuations related to anticipated revenues and operating costs, firm commitments for capital expenditures, and existing assets and liabilities denominated in currencies other than U.S. dollars. The Company enters into foreign currency forward exchange contracts and purchases options to manage these exposures. At December 31, 2008, seventy-four foreign currency forward exchange contracts were outstanding. A hypothetical 10% strengthening (or weakening) of the U.S. dollar against the British Pound Sterling, Canadian Dollar, Chinese Yuan, Japanese Yen, and Euro at December 31, 2008 would result in a pre-tax loss (or gain) of approximately \$3.9 million. The foreign currency forward exchange contracts purchased during 2008 have been accounted for according to SFAS No. 133, "Accounting for Derivative Instruments and Hedging Activities" ("SFAS No. 133").

The Company had also entered into a ten-year foreign currency swap agreement to fix the foreign exchange rate on a \$6.5 million intercompany loan between the Company and its subsidiary, Chemvicon Carbon Ltd. The swap agreement provides the offset for the foreign currency fluctuation and neutralizes its effect on loan payments and valuation. This swap transaction has been accounted for in accordance with SFAS No. 133.

Item 8. Financial Statements and Supplementary Data:

REPORT OF MANAGEMENT

Responsibility for Preparation of the Financial Statements and Establishing and Maintaining Adequate Internal Control Over Financial Reporting

Responsibility for Financial Statements

Management is responsible for the preparation of the financial statements included in this Annual Report. The Consolidated Financial Statements were prepared in accordance with accounting principles generally accepted in the United States of America and include amounts that are based on the best estimates and judgments of management.

Management's Annual Report on Internal Control over Financial Reporting

Management is responsible for establishing and maintaining adequate internal controls over financial reporting. The Company's internal control system is designed to provide reasonable assurance concerning the reliability of the financial data used in the preparation of the Company's financial statements, as well as reasonable assurance with respect to safeguarding the Company's assets from unauthorized use or disposition. However, no matter how well designed and operated, an internal control system can provide only reasonable, not absolute, assurance that the objectives of the control system are met.

Management conducted an evaluation of the effectiveness of the Company's internal control over financial reporting as of December 31, 2008. In making this evaluation, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control - Integrated Framework. Management's evaluation included reviewing the documentation of our controls, evaluating the design effectiveness of controls, and testing their operating effectiveness. Based on this evaluation, management believes that, as of December 31, 2008, the Company's internal controls over financial reporting were effective and provide reasonable assurance that the accompanying financial statements do not contain any material misstatement.

The effectiveness of internal control over financial reporting as of December 31, 2008, has been audited by Deloitte & Touche LLP, an independent registered public accounting firm, who also audited our consolidated financial statements. Deloitte & Touche LLP's attestation report on the effectiveness of our internal control over financial reporting appears below.

Changes in Internal Control

There have been no changes to our internal control over financial reporting that occurred that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

INTERNAL CONTROLS – REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Shareholders of
Calgon Carbon Corporation
Pittsburgh, Pennsylvania

We have audited the internal control over financial reporting of Calgon Carbon Corporation and subsidiaries (the "Company") as of December 31, 2008, based on criteria established in Internal Control — Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission. The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Annual Report on Internal Control over Financial Reporting, included in the accompanying Report of Management. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

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

Because of the inherent limitations of internal control over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may not be prevented or detected on a timely basis. Also, projections of any evaluation of the effectiveness of the internal control over financial reporting to future periods are subject to the risk that the controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2008, based on the criteria established in Internal Control — Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated financial statements as of and for the year ended December 31, 2008 of the Company and our report dated March 13, 2009 expressed an unqualified opinion on those financial statements.

DELOITTE & TOUCHE LLP

Pittsburgh, Pennsylvania
March 13, 2009

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FINANCIAL STATEMENTS – REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Shareholders of
Calgon Carbon Corporation
Pittsburgh, Pennsylvania

We have audited the accompanying consolidated balance sheets of Calgon Carbon Corporation and subsidiaries (the "Company") as of December 31, 2008 and 2007, and the related consolidated statements of income (loss) and comprehensive income, shareholders' equity, and cash flows for each of the three years in the period ended December 31, 2008. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, such consolidated financial statements present fairly, in all material respects, the financial position of Calgon Carbon Corporation and subsidiaries as of December 31, 2008 and 2007, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2008, in conformity with accounting principles generally accepted in the United States of America.

As discussed in Note 1 to the consolidated financial statements, the Company adopted the provisions of Financial Accounting Standards Board Interpretation No. 48, Accounting for Uncertainty in Income Taxes, on January 1, 2007 and the provisions of Statement of Financial Accounting Standards No. 158, Employers' Accounting for Defined Benefit Pension and Other Postretirement Plans, on December 31, 2006.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the Company's internal control over financial reporting as of December 31, 2008, based on the criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated March 13, 2009 expressed an unqualified opinion on the Company's internal control over financial reporting.

DELOITTE & TOUCHE LLP
Pittsburgh, Pennsylvania
March 13, 2009

CONSOLIDATED STATEMENTS OF INCOME (LOSS) AND COMPREHENSIVE INCOME

Calgon Carbon Corporation

| (Dollars in thousands except per share data) | Year Ended December 31 | | |
|---|------------------------|------------|------------|
| | 2008 | 2007 | 2006 |
| Net sales | \$ 390,066 | \$ 341,508 | \$ 306,770 |
| Net sales to related parties | 10,204 | 9,616 | 9,352 |
| Total | 400,270 | 351,124 | 316,122 |
| Cost of products sold (excluding depreciation) | 266,885 | 242,273 | 236,673 |
| Depreciation and amortization | 16,674 | 17,248 | 18,933 |
| Selling, general and administrative expenses | 64,149 | 61,348 | 62,010 |
| Research and development expenses | 4,129 | 3,699 | 4,248 |
| Gain on AST settlement (Note 17) | (9,250) | - | - |
| Gain from insurance settlement (Note 2) | - | - | (8,072) |
| Goodwill impairment charge (Note 6) | - | - | 6,940 |
| | 342,587 | 324,568 | 320,732 |
| Income (loss) from operations | 57,683 | 26,556 | (4,610) |
| Interest income | 1,504 | 1,695 | 822 |
| Interest expense | (3,673) | (5,508) | (5,977) |
| Other expense – net | (2,703) | (1,441) | (2,209) |
| Income (loss) from continuing operations before income taxes and equity in income of equity investments | 52,811 | 21,302 | (11,974) |
| Income tax provision (benefit) (Note 13) | 18,101 | 7,826 | (2,676) |
| Income (loss) from continuing operations before equity in income of equity investments | 34,710 | 13,476 | (9,298) |
| Equity in income of equity investments, net | 854 | 1,977 | 286 |
| Income (loss) from continuing operations | 35,564 | 15,453 | (9,012) |
| Income (loss) from discontinued operations, net (Note 3) | 2,793 | (166) | 1,214 |
| Net income (loss) | 38,357 | 15,287 | (7,798) |
| Other comprehensive (loss) income, net of tax (benefit)provision of \$(9,507), \$3,449, and \$2,752, respectively | (23,458) | 6,703 | 9,238 |
| Comprehensive income | \$ 14,899 | \$ 21,990 | \$ 1,440 |
| Basic income (loss) from continuing operations per common share | \$.80 | \$.39 | \$ (.23) |
| Income from discontinued operations per common share | \$.06 | \$ - | \$.03 |
| Basic net income (loss) per common share | \$.86 | \$.39 | \$ (.20) |
| Diluted income (loss) from continuing operations per common share | \$.67 | \$.31 | \$ (.23) |
| Income from discontinued operations per common share | \$.05 | \$ - | \$.03 |
| Diluted net income (loss) per common share | \$.72 | \$.31 | \$ (.20) |
| Weighted average shares outstanding, in thousands | | | |
| Basic | 44,679 | 39,788 | 39,927 |
| Diluted | 53,385 | 50,557 | 39,927 |

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

CONSOLIDATED BALANCE SHEETS

Calgon Carbon Corporation

| (Dollars in thousands) | December 31 | |
|--|-------------|------------|
| | 2008 | 2007 |
| Assets | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 16,750 | \$ 30,304 |
| Receivables, net of allowance for losses of \$1,596 and \$2,834 | 62,300 | 55,195 |
| Receivables from related parties | 2,215 | 2,353 |
| Revenue recognized in excess of billings on uncompleted contracts | 8,870 | 7,698 |
| Inventories | 93,725 | 81,280 |
| Deferred income taxes – current | 9,241 | 9,246 |
| Other current assets | 7,821 | 3,602 |
| Total current assets | 200,922 | 189,678 |
| Property, plant and equipment, net | 122,960 | 105,512 |
| Equity investments | 11,747 | 8,593 |
| Intangibles, net | 5,930 | 7,760 |
| Goodwill | 26,340 | 27,845 |
| Deferred income taxes – long-term | 13,129 | 6,419 |
| Other assets | 6,568 | 2,333 |
| Total assets | \$ 387,596 | \$ 348,140 |
| Liabilities and Shareholders' Equity | | |
| Current liabilities: | | |
| Accounts payable and accrued liabilities | \$ 39,647 | \$ 39,436 |
| Billings in excess of revenue recognized on uncompleted contracts | 4,639 | 3,727 |
| Accrued interest | 140 | 1,461 |
| Payroll and benefits payable | 10,522 | 9,182 |
| Accrued income taxes | 1,088 | 1,944 |
| Short-term debt | 1,605 | 1,504 |
| Current portion of long-term debt | 8,776 | 62,507 |
| Total current liabilities | 66,417 | 119,761 |
| Long-term debt | - | 12,925 |
| Deferred income taxes – long-term | 242 | 1,361 |
| Accrued pension and other liabilities | 68,199 | 41,844 |
| Total liabilities | 134,858 | 175,891 |
| Commitments and contingencies (Notes 9 and 17) | | |
| Shareholders' equity: | | |
| Common shares, \$.01 par value, 100,000,000 shares authorized, 56,961,297 and 43,044,318 shares issued | 570 | 430 |
| Additional paid-in capital | 144,040 | 77,299 |
| Retained earnings | 143,193 | 104,936 |
| Accumulated other comprehensive (loss) income | (6,450) | 17,008 |
| | 281,353 | 199,673 |
| Treasury stock, at cost, 2,902,264 and 2,827,301 shares | (28,615) | (27,424) |
| Total shareholders' equity | 252,738 | 172,249 |
| Total liabilities and shareholders' equity | \$ 387,596 | \$ 348,140 |

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

CONSOLIDATED STATEMENTS OF CASH FLOWS

Calgon Carbon Corporation

| (Dollars in thousands) | Year Ended December 31 | | |
|--|------------------------|-----------|------------|
| | 2008 | 2007 | 2006 |
| Cash flows from operating activities | | | |
| Net income (loss) | \$ 38,357 | \$ 15,287 | \$ (7,798) |
| Adjustments to reconcile net income (loss) to net cash provided by (used in) operating activities: | | | |
| Gain on insurance settlement | - | - | (8,072) |
| Gain from divestiture | (4,353) | - | (6,719) |
| Depreciation and amortization | 16,674 | 17,248 | 18,935 |
| Non-cash impairment and restructuring charges | - | - | 7,728 |
| Equity in income from equity investments | (854) | (1,977) | (286) |
| Distributions received from equity investments | 526 | 739 | - |
| Employee benefit plan provisions | 2,063 | 3,076 | 3,285 |
| Stock-based compensation | 2,884 | 2,887 | 1,309 |
| Excess tax benefit from stock-based compensation | (2,578) | - | - |
| Deferred income tax expense (benefit) | 3,347 | 3,196 | (973) |
| Changes in assets and liabilities—net of effects from foreign exchange: | | | |
| (Increase) decrease in receivables | (9,975) | (1,098) | 3,232 |
| Increase in inventories | (14,931) | (9,559) | (1,508) |
| (Increase) decrease in revenue in excess of billings on uncompleted contracts and other current assets | (2,074) | 287 | 2,800 |
| Decrease in restructuring reserve | - | - | (293) |
| Increase (decrease) in accounts payable and accrued liabilities | 2,610 | 5,390 | (6,631) |
| Pension contributions | (6,215) | (7,787) | (11,395) |
| Other items—net | 89 | 1,724 | 601 |
| Net cash provided by (used in) operating activities | 25,570 | 29,413 | (5,785) |
| Cash flows from investing activities | | | |
| Proceeds from divestitures | - | - | 21,265 |
| Property, plant and equipment expenditures | (33,006) | (11,789) | (12,855) |
| Proceeds from insurance settlement for property and equipment | - | - | 4,595 |
| Proceeds from disposals of property, plant and equipment | 910 | 513 | 1,205 |
| Net cash (used in) provided by investing activities | (32,096) | (11,276) | 14,210 |
| Cash flows from financing activities | | | |
| Issuance of debt obligations | - | 1,504 | 71,911 |
| Reductions of debt obligations | (11,000) | - | - |
| Revolving credit facility borrowings (repayments), net | - | - | (81,000) |
| Treasury stock purchased | (1,191) | (187) | (108) |
| Common stock issued | 5,120 | 3,090 | 464 |
| Excess tax benefit from stock-based compensation | 2,578 | 942 | - |
| Other | (456) | - | - |
| Net cash (used in) provided by financing activities | (4,949) | 5,349 | (8,733) |
| Effect of exchange rate changes on cash | (2,079) | 1,187 | 493 |
| (Decrease) increase in cash and cash equivalents | (13,554) | 24,673 | 185 |
| Cash and cash equivalents, beginning of year | 30,304 | 5,631 | 5,446 |
| Cash and cash equivalents, end of year | \$ 16,750 | \$ 30,304 | \$ 5,631 |

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

CONSOLIDATED STATEMENTS OF SHAREHOLDERS' EQUITY

Calgon Carbon Corporation

| (Dollars in thousands) | Common | Additional | Accumulated | | | Treasury Stock | | Total | |
|--|---------------|---------------|-----------------|-------------------|-----------------------------------|----------------|-----------|-------------|------------|
| | Shares Issued | Common Shares | Paid-In Capital | Retained Earnings | Other Comprehensive Income (Loss) | Sub-Total | Shares | | Amount |
| Balance, December 31, 2005 | 42,459,733 | \$ 425 | \$ 68,989 | \$ 101,833 | \$ 6,442 | \$ 177,689 | 2,787,258 | \$ (27,129) | \$ 150,560 |
| 2006 | | | | | | | | | |
| Net loss | - | - | - | (7,798) | - | (7,798) | - | - | (7,798) |
| Cumulative effect adjustment due to the adoption of SFAS No. 158, net of tax | - | - | - | - | (5,375) | (5,375) | - | - | (5,375) |
| Employee and director stock plans | 90,557 | - | 1,356 | - | - | 1,356 | - | - | 1,356 |
| Translation adjustments, net of tax | - | - | - | - | 4,644 | 4,644 | - | - | 4,644 |
| Additional minimum pension liability, net of tax | - | - | - | - | 4,790 | 4,790 | - | - | 4,790 |
| Unrecognized loss on derivatives, net of tax | - | - | - | - | (196) | (196) | - | - | (196) |
| Treasury stock purchased | - | - | - | - | - | - | 15,190 | (108) | (108) |
| Balance, December 31, 2006 | 42,550,290 | \$ 425 | \$ 70,345 | \$ 94,035 | \$ 10,305 | \$ 175,110 | 2,802,448 | \$ (27,237) | \$ 147,873 |
| 2007 | | | | | | | | | |
| Net income | - | - | - | 15,287 | - | 15,287 | - | - | 15,287 |
| Translation adjustments, net of tax | - | - | - | - | 2,557 | 2,557 | - | - | 2,557 |
| Unrecognized gain on | - | - | - | - | 498 | 498 | - | - | 498 |

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| | | | | | | | | | | |
|---|------------|--------|------------|------------|------------|------------|-----------|-------------|------------|--|
| derivatives, net of tax | | | | | | | | | | |
| Employee benefit plans, net of tax (See Note 12) | - | - | - | - | 3,648 | 3,648 | - | - | 3,648 | |
| Cumulative effect adjustment due to the adoption of FIN 48, (See Note 13) | - | - | - | (4,386) | - | (4,386) | - | - | (4,386) | |
| Employee and director stock plans | 494,028 | 5 | 6,954 | - | - | 6,959 | - | - | 6,959 | |
| Treasury stock purchased | - | - | - | - | - | - | 24,853 | (187) | (187) | |
| Balance, December 31, 2007 | 43,044,318 | \$ 430 | \$ 77,299 | \$ 104,936 | \$ 17,008 | \$ 199,673 | 2,827,301 | \$ (27,424) | \$ 172,249 | |
| 2008 | | | | | | | | | | |
| Net income | - | - | - | 38,357 | - | 38,357 | - | - | 38,357 | |
| Translation adjustments, net of tax | - | - | - | - | (4,744) | (4,744) | - | - | (4,744) | |
| Unrecognized loss on derivatives, net of tax | - | - | - | - | (755) | (755) | - | - | (755) | |
| Employee benefit plans, net of tax (See Note 12) | - | - | - | - | (17,959) | (17,959) | - | - | (17,959) | |
| Employee and director stock plans | 950,689 | 10 | 10,794 | - | - | 10,804 | - | - | 10,804 | |
| Conversion of Notes (See Note 8) | 12,966,290 | 130 | 55,947 | - | - | 56,077 | - | - | 56,077 | |
| Treasury stock purchased | - | - | - | - | - | - | 74,963 | (1,191) | (1,191) | |
| Other | - | - | - | (100) | - | (100) | - | - | (100) | |
| Balance, December 31, 2008 | 56,961,297 | \$ 570 | \$ 144,040 | \$ 143,193 | \$ (6,450) | \$ 281,353 | 2,902,264 | \$ (28,615) | \$ 252,738 | |

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

1. Summary of Accounting Policies

Operations

Calgon Carbon Corporation (the “Company”) is a global leader in services and solutions for purifying water and air, food, beverage, and industrial process streams. The Company’s operations are principally conducted in three business segments: Activated Carbon and Service, Equipment, and Consumer. Each of these segments includes the production, design and marketing of products and services specifically developed for the purification, separation and concentration of liquids and gases. The Activated Carbon and Service segment relies on activated carbon as a base material, while the Equipment segment relies on a variety of methods and materials which involve other products in addition to activated carbon. The Consumer segment brings the Company’s purification technologies directly to the consumer in the form of products and services. The Company’s largest markets are in the United States, Europe, and Japan. The Company also markets in Africa, Canada, India, Latin America, and Asia.

Principles of Consolidation

The consolidated financial statements include the accounts of Calgon Carbon Corporation and its wholly owned subsidiaries, Chemviron Carbon GmbH, Calgon Carbon Canada, Inc., Chemviron Carbon Ltd., Calgon Carbon Investments, Inc., Solarchem Environmental Systems, Inc., Charcoal Cloth (International) Ltd., Charcoal Cloth Ltd., Advanced Separation Technologies, Inc., Calgon Carbon (Tianjin) Co. Ltd., Datong Carbon Corporation, Calgon Carbon Asia PTE Ltd., Waterlink (UK) Holdings Ltd., Sutcliffe Croftshaw Ltd., Sutcliffe Speakman Ltd., Sutcliffe Speakman Carbons Ltd., Lakeland Processing Ltd., Sutcliffe Speakmanco 5 Ltd., BSC Columbus, LLC, CCC Columbus, LLC, and CCC Distribution, LLC. The Company has a 49% ownership stake in a joint venture with Mitsubishi Chemical Corporation named Calgon Mitsubishi Chemical Corporation (CMCC). CMCC is accounted for in the Company’s financial statements under the equity method. The Company also has a 20% joint venture company with C. Gigantic Carbon Company named Calgon Carbon (Thailand) Company Ltd. which is accounted for in the Company’s financial statements under the equity method. Intercompany accounts and transactions have been eliminated. Certain of the Company’s international operations in Europe are owned directly by the Company and are operated as branches.

Foreign Currency

Substantially all assets and liabilities of the Company’s international operations are translated at year-end exchange rates; income and expenses are translated at average exchange rates prevailing during the year. Translation adjustments represent other comprehensive income or loss and are accumulated in a separate component of shareholders’ equity, net of tax effects. Transaction gains and losses are included in other expense-net.

Revenue Recognition

Revenue and related costs are recognized when goods are shipped or services are rendered to customers provided that ownership and risk of loss have passed to the customer, the price to the customer is fixed or determinable and collection is reasonably assured. Revenue for major equipment projects is recognized under the percentage of completion method. The Company's major equipment projects generally have a long project life cycle from bid solicitation to project completion. The nature of the contracts are generally fixed price with milestone billings. The Company recognizes revenue for these projects based on the fixed sales prices multiplied by the percentage of completion. In applying the percentage-of-completion method, a project's percent complete as of any balance sheet date is computed as the ratio of total costs incurred to date divided by the total estimated costs at completion. As changes in the estimates of total costs at completion and/or estimated total losses on projects are identified, appropriate earnings adjustments are recorded during the period that the change or loss is identified. The Company has a history of making reasonably dependable estimates of costs at completion on contracts that follow the percentage-of-completion method; however, due to uncertainties inherent in the estimation process, it is possible that estimated project costs at completion could vary from estimates. The principal components of costs include material, direct labor, subcontracts, and allocated indirect costs. Indirect costs primarily consist of administrative labor and associated operating expenses, which are allocated to the respective projects on actual hours charged to the project utilizing a standard hourly rate.

Allowance for Doubtful Accounts

The Company maintains allowances for doubtful accounts for estimated losses resulting from the inability of its customers to make required payments. The amount of allowance recorded is primarily based upon a quarterly review of specific customer transactions that remain outstanding at least three months beyond their respective due dates.

Inventories

Inventories are carried at the lower of cost or market. Inventory costs are primarily determined using the first-in, first-out (FIFO) method.

Property, Plant and Equipment

Property, plant and equipment are recorded at cost. Repair and maintenance costs are expensed as incurred. Depreciation for financial reporting purposes is computed on the straight-line method over the estimated service lives of the assets, which are from 15 to 30 years for land improvements and buildings, 5 to 15 years for furniture, and machinery and equipment, 5 to 10 years for customer capital, 5 years for transportation equipment, and 5 to 10 years for computer hardware and software.

Goodwill and Other Intangible Assets

Goodwill represents the excess of the cost of an acquired business over the fair value of the identifiable tangible and intangible assets acquired and liabilities assumed in a business combination. Identifiable intangible assets acquired in business combinations are recorded based on their fair values at the date of acquisition. In accordance with Statement of Financial Accounting Standard No. 142, "Goodwill and Other Intangible Assets" (SFAS No. 142"), goodwill and identifiable intangible assets with indefinite lives are not subject to amortization but must be evaluated for impairment. None of the Company's identifiable intangible assets other than goodwill have indefinite lives.

The Company tests goodwill for impairment at least annually by initially comparing the fair value of each of the Company's reporting units to their related carrying values. If the fair value of the reporting unit is less than its carrying value, the Company performs an additional step to determine the implied fair value of the goodwill. The implied fair value of goodwill is determined by first allocating the fair value of the reporting unit to all of the assets and liabilities of the unit and then computing the excess of the unit's fair value over the amounts assigned to the assets and liabilities. If the carrying value of goodwill exceeds the implied fair value of goodwill, such excess represents the amount of goodwill impairment, and the Company recognizes such impairment accordingly. Fair values are estimated using discounted cash flow and other valuation methodologies that are based on projections of the amounts and timing of future revenues and cash flows, assumed discount rates and other assumptions as deemed appropriate. The Company considers such factors as historical performance, anticipated market conditions, operating expense trends and capital expenditure requirements.

The Company's identifiable intangible assets other than goodwill have finite lives. Certain of these intangible assets, such as customer relationships, are amortized using an accelerated methodology while others, such as patents, are amortized on a straight-line basis over their estimated useful lives. In addition, intangible assets with finite lives are evaluated for impairment whenever events or circumstances indicate that their carrying amount may not be recoverable, as prescribed by SFAS No. 144, "Accounting for the Impairment or Disposal of Long-Lived Assets" ("SFAS No. 144").

Long-Lived Assets

The Company evaluates long-lived assets under the provisions of SFAS No. 144, which addresses financial accounting and reporting for the impairment of long-lived assets and for long-lived assets to be disposed of. For assets to be held and used, the Company groups a long-lived asset or assets with other assets and liabilities at the lowest level for which identifiable cash flows are largely independent of the cash flows of other assets and liabilities. An impairment loss for an asset group reduces only the carrying amounts of a long-lived asset or assets of the group being evaluated. The loss is allocated to the long-lived assets of the group on a pro-rata basis using the relative carrying amounts of those assets, except that the loss allocated to an individual long-lived asset of the group does not reduce the carrying amount of that asset below its fair value whenever that fair value is determinable without undue cost and effort. Estimates of future cash flows used to test the recoverability of a long-lived asset group include only the future cash flows that are directly associated with and that are expected to arise as a direct result of the use and eventual disposition of the asset group. The future cash flow estimates used by the Company exclude interest charges.

Income Taxes

As described in Note 13, on January 1, 2007, the Company adopted FASB Interpretation No. 48, "Accounting for Uncertainty in Income Taxes – an interpretation of FASB Statement No. 109, Accounting for Income Taxes" ("FIN 48"). FIN 48 prescribes recognition and measurement standards for a tax position taken or expected to be taken in a tax return. The evaluation of a tax position in accordance with FIN 48 is a two step process. The first step is the determination of whether a tax position should be recognized in the financial statements. Under FIN 48, the benefit of a tax position taken or expected to be taken in a tax return is to be recognized only if the Company determines that it is more-likely-than-not that the tax position will be sustained upon examination by the tax authorities based upon the technical merits of the position. In step two, for those tax positions which should be recognized, the measurement of a tax position is determined as being the largest amount of benefit that is greater than 50% likely of being realized upon ultimate settlement. As a result of the adoption of FIN 48 and recognition of the cumulative effect of adoption of a new accounting principle, the Company recorded a \$5.7 million increase in the gross unrecognized income tax benefits and a decrease in retained earnings of \$4.3 million. The Company recognizes interest and penalties related to uncertain tax positions in the income tax provision (benefit).

Deferred tax assets and liabilities are recognized for the future tax consequences of temporary differences between the book and tax basis of assets and liabilities. If it is more likely than not that some portion or all of a deferred tax asset will not be realized, a valuation allowance is recognized. The Company assesses its ability to realize deferred tax assets based on normalized historical performance and on projections of future taxable income in the relevant tax jurisdictions. Normalized historical performance for purposes of this assessment includes adjustments for those income and expense items that are unusual and non-recurring in nature and are not expected to affect results in future periods. Such unusual and non-recurring items include the effects of discontinued operations, legal fees or settlements associated with specific litigation matters, pension curtailment costs, and restructuring costs. The Company's projections of future taxable income considers known events, such as the passage of legislation or expected occurrences, and do not reflect a general growth assumption. The Company's estimates of future taxable income are reviewed annually or whenever events or changes in circumstances indicate that such projections should be modified.

No provision is made for U.S. income taxes on the undistributed earnings of non-U.S. subsidiaries because these earnings are deemed permanently invested or otherwise indefinitely retained for continuing international operations. These earnings would become subject to income tax if they were remitted as dividends, were loaned to the Company or a U.S. affiliate, or if the Company were to sell its ownership interest in the subsidiaries. Determination of the amount of unrecognized deferred U.S. income tax liability on these unremitted earnings is not practicable.

Pensions

Accounting for pensions involves estimating the cost of benefits to be provided well into the future and attributing that cost over the time period each employee works. To accomplish this, extensive use is made of assumptions about inflation, investment returns, mortality, turnover and discount rates. These assumptions are reviewed annually. In determining the expected return on plan assets, the Company evaluates long-term actual return information, the mix of investments that comprise plan assets and future estimates of long-term investment returns.

On December 31, 2006, the Company adopted Statement of Financial Accounting Standard No. 158, "Employers' Accounting for Defined Benefit Pension and Other Postretirement Plans" ("SFAS No. 158"). SFAS No. 158 requires recognition of the funded status of a benefit plan on the balance sheet; the recognition in other comprehensive income of gains or losses and prior service costs or credits arising during the period but which are not included as components of periodic benefit cost; the measurement of defined benefit plan assets and obligations as of the balance sheet date; and disclosure of additional information about the effects on periodic benefit cost for the following fiscal year arising from gains and losses in the current period.

Net Income (Loss) per Common Share

Basic net income (loss) per common share is computed by dividing net income (loss) by the weighted average number of common shares outstanding during the period. Diluted net income (loss) per common share is computed by dividing net income (loss) by the weighted average number of common shares outstanding plus all potential dilutive common shares outstanding during the period. Potential dilutive common shares are determined using the treasury stock method. Under the treasury stock method, exercise of options is assumed at the beginning of the period when the average stock price during the period exceeds the exercise price of outstanding options and common shares are assumed issued. The proceeds from exercise are assumed to be used to purchase common stock at the average market price during the period. The incremental shares to be issued are considered to be the potential dilutive common shares outstanding. The treasury stock method is also used for the Company's convertible senior notes when the average stock price exceeds the conversion price.

Cash and Cash Equivalents

The Company considers all highly liquid, short-term investments made with an original maturity of three months or less to be cash equivalents.

Derivative Instruments

The Company applies SFAS No. 133, "Accounting for Derivative Instruments and Hedging Activities" ("SFAS No. 133"). SFAS No. 133, as amended, establishes accounting and reporting standards for derivative instruments, including certain derivative instruments embedded in other contracts and for hedging activities. Derivative financial instruments are occasionally utilized by the Company to manage risk exposure to movements in foreign exchange rates, interest rates, or the price of natural gas. Changes in the value of derivative financial instruments are measured at the balance sheet date and recognized in current earnings or other comprehensive income depending on whether the derivative is designated as part of a hedge transaction and meets certain other criteria. The Company does not hold derivative financial instruments for trading purposes or any fair value hedges.

Use of Estimates

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

Labor Agreements

Collective bargaining agreements cover approximately 27% of the Company's labor force at December 31, 2008 under agreements which expire in 2009, 2010, and 2011. Approximately 160 hourly personnel are covered under the collective bargaining agreements that expire on April 1, 2009 and July 31, 2009.

Stock-Based Compensation

The Company adopted SFAS No. 123(R), "Share-based Payments" ("SFAS No. 123(R)"), on January 1, 2006 using the modified prospective application method. Under this transaction method, compensation cost recognized for the years ended December 31, 2008, 2007, and 2006 includes the applicable amounts of compensation cost of all stock-based payments granted prior to, but not yet vested, as of January 1, 2006 (based on the grant date fair value estimated in accordance with the provisions of SFAS No. 123(R)). In accordance with SFAS No. 123(R), compensation expense for stock options is now recorded over the vesting period using the fair value on the date of grant, as calculated by the Company using the Black-Scholes model. The nonvested restricted stock grant date fair value, which is the market price of the underlying common stock, is expensed over the vesting period. The Company's stock-based compensation plan is more fully described in Note 11.

Concentration of Credit Risk

Financial instruments that potentially expose the Company to concentrations of credit risk consist primarily of cash and cash equivalents and customer receivables. The Company places its cash with high credit quality financial institutions and invests in low-risk, highly liquid instruments. With respect to customer receivables, the Company believes that it has no significant concentration of credit risk with its largest customer receivable comprising approximately 3% of total receivables as of December 31, 2008.

Fair Value of Financial Instruments Excluding Derivative Instruments

The Company's financial instruments, excluding derivative instruments, consist primarily of cash and cash equivalents and current portion of long-term debt as well as accounts receivable and accounts payable. The fair value of the cash and cash equivalents, accounts receivable, and accounts payable approximates their carrying value because of the short-term maturity of the instruments. See Note 8 for a discussion of the fair value of the Company's debt.

New Accounting Pronouncements

In December 2007, the FASB issued SFAS No. 141 (revised 2007), "Business Combinations" ("SFAS No.141(R)"), which replaces SFAS No. 141, "Business Combinations." SFAS No. 141(R) retains the underlying concepts of SFAS No. 141 in that all business combinations are still required to be accounted for at fair value under the acquisition method of accounting, but SFAS No. 141(R) changes the method of applying the acquisition method in a number of significant aspects. Acquisition costs will generally be expensed as incurred; noncontrolling interests will be valued at fair value at the acquisition date; in-process research and development will be recorded at fair value as an indefinite-lived intangible asset at the acquisition date; restructuring costs associated with a business combination will generally be expensed subsequent to the acquisition date; and changes in deferred tax asset valuation allowances and income tax uncertainties after the acquisition date generally will affect income tax expense. SFAS No. 141(R) is effective on a prospective basis for all business combinations for which the acquisition date is on or after the beginning of the first annual period subsequent to December 15, 2008, with an exception related to the accounting for valuation allowances on deferred taxes and acquired tax contingencies related to acquisitions completed before the effective date. SFAS No. 141(R) amends SFAS No. 109 to require adjustments, made after the effective date of this statement, to valuation allowances for acquired deferred tax assets and income tax positions to be recognized as income tax expense. Beginning January 1, 2009, the Company will apply the provisions of SFAS No. 141(R) to its accounting for applicable business combinations.

In December 2007, the FASB issued SFAS No. 160 (“SFAS No. 160”), “Noncontrolling Interests in Consolidated Financial Statements.” SFAS No. 160 changes the classification of noncontrolling (minority) interests on the balance sheet and the accounting for and reporting of transactions between the reporting entity and holders of such noncontrolling interests. Under the new standard, noncontrolling interests are considered equity and are to be reported as an element of stockholders’ equity rather than outside of equity in the balance sheet. In addition, the current practice of reporting minority interest expense or benefit also will change. Under the new standard, net income will encompass the total income before minority interest expense. The statement of operations will include separate disclosure of the attribution of income between the controlling and noncontrolling interests. Increases and decreases in the noncontrolling ownership interest amount are accounted for as equity transactions. SFAS No. 160 is effective for fiscal years beginning after December 15, 2008 and earlier application is prohibited. Upon adoption, the balance sheet and the statement of operations should be recast retrospectively for the presentation of noncontrolling interests. The other accounting provisions of the statement are required to be adopted prospectively. The Company adopted SFAS No. 160 as required on January 1, 2009 and the adoption did not have a material impact on its financial position or results of operations.

In March 2008, the FASB issued SFAS No. 161, “Disclosures about Derivative Instruments and Hedging Activities,” which changes the disclosure requirements for derivative instruments and hedging activities. SFAS No. 161 requires enhanced disclosures about (a) how and why an entity uses derivative instruments, (b) how derivative instruments and related hedging items are accounted for under SFAS No. 133, “Accounting for Derivative Instruments and Hedging Activities” and its related interpretations, and (c) how derivative instruments and related hedged items affect an entity’s financial position, financial performance, and cash flows. This statement’s disclosure requirements are effective for fiscal years and interim periods beginning after November 15, 2008. The Company is currently evaluating the effects that SFAS No. 161 may have on its consolidated financial statement disclosures.

In April 2008, the FASB issued FSP SFAS 142-3, “Determination of the Useful Life of Intangible Assets.” FSP SFAS 142-3 amends the factors that should be considered in developing renewal or extension assumptions used to determine the useful life of a recognized intangible asset under SFAS No. 142, “Goodwill and Other Intangible Assets.” Previously, under the provisions of SFAS No. 142, an entity was precluded from using its own assumptions about renewal or extension of an arrangement where there was likely to be substantial cost or material modifications. FSP SFAS 142-3 removes the requirement of SFAS No. 142 for an entity to consider whether an intangible asset can be renewed without substantial cost or material modification to the existing terms and conditions and requires an entity to consider its own experience in renewing similar arrangements. FSP SFAS 142-3 also increases the disclosure requirements for a recognized intangible asset to enable a user of financial statements to assess the extent to which the expected future cash flows associated with the asset are affected by the entity’s intent or ability to renew or extend the arrangement. FSP SFAS 142-3 is effective for fiscal years beginning after December 15, 2008 and interim periods within those fiscal years. Early adoption is prohibited. The guidance for determining the useful life of a recognized intangible asset is applied prospectively to intangible assets acquired after the effective date. Accordingly, the Company does not anticipate that the initial application of FSP SFAS No. 142-3 will have an impact on the Company. The disclosure requirements must be applied prospectively to all intangible assets recognized as of, and subsequent to, the effective date.

In May 2008, the FASB issued FASB Staff Position APB 14-1, "Accounting for Convertible Debt Instruments That May Be Settled in Cash upon Conversion (Including Partial Cash Settlement)" ("FSP APB 14-1"). FSP APB 14-1 requires the issuer to separately account for the liability and equity components of convertible debt instruments in a manner that reflects the issuer's nonconvertible debt borrowing rate. The guidance will result in companies recognizing higher interest expense in the statement of operations due to amortization of the discount that results from separating the liability and equity components. FSP APB 14-1 is effective for financial statements issued for fiscal years beginning after December 15, 2008 and interim periods within those fiscal years and requires retrospective application to prior year financial statements. The Company is still in the process of evaluating the impact that the adoption of FSP APB 14-1 will have on its financial statements. The application of APB 14-1 is not expected to have a material prospective impact on our financial statements.

Reclassification

Certain prior year amounts have been reclassified to conform to the 2008 presentation.

2. Gain or Loss on Insurance Settlement

In August 2005, the Company's plant located in Pearlington, Mississippi was damaged by Hurricane Katrina, and the Company recorded \$1.0 million of non-reimbursable expense in the year ended December 31, 2005. In accordance with FIN No. 30, "Accounting for Involuntary Conversions of Non-Monetary Assets to Monetary Assets," the Company wrote off the net book value of the destroyed inventory and property totaling \$1.8 million. The replacement value of the inventory and property exceeded its net book value by approximately \$4.9 million, which was recorded as a gain on insurance settlement in the year ended December 31, 2006. The Company also settled its business interruption insurance claim with its insurance company for \$3.8 million. This amount, net of costs related to business interruption of \$0.6 million, was recorded as a gain on insurance settlement in the year ended December 31, 2006.

3. Discontinued Operations

On February 17, 2006, the Company, through its wholly owned subsidiary Chemviron Carbon GmbH, executed an agreement (the "Charcoal Sale Agreement") with proFagus GmbH, proFagus Grundstuecksverwaltungs GmbH and proFagus Beteiligungen GmbH (as Guarantor) to sell, and sold, substantially all the assets, real estate, and specified liabilities of the Bodenfelde, Germany facility (the "Charcoal/Liquid business"). The aggregate sales price, based on an exchange rate of 1.19 Dollars per Euro, consisted of \$20.4 million of cash, which included a final working capital adjustment of \$1.3 million. The Company provided guarantees to the buyer related to pre-divestiture tax liabilities, future environmental remediation costs related to pre-divestiture activities and other contingencies. Management believes the ultimate cost of such guarantees is not material. An additional 4.25 million Euro could have been received dependent upon the business meeting certain earnings targets over the next three years. In May 2008, the Company reached a final agreement with proFagus GmbH, proFagus Grundstuecksverwaltungs GmbH and proFagus Beteiligungen GmbH (as Guarantor) regarding the aforementioned additional 4.25 million Euro contingent consideration, fixing the amount to be paid to the Company at 2.8 million Euro. The Company expects to receive this payment in December 2011. The unpaid balance earns interest at 7% which is paid annually. The Company had presented the Charcoal/Liquid business as a discontinued operation for the periods that were impacted and has recorded a pre-tax gain of \$4.8 million or \$1.7 million, net of tax, on the sale during the year ended December 31, 2006. The Company recorded the resolution of the additional contingent consideration as an additional pre-tax gain on sale of \$4.4 million or \$2.8 million, net of tax, within discontinued operations during the year ended December 31, 2008.

On April 24, 2006, the Company completed the sale of the assets of its Solvent Recovery business to MEGTEC Systems, Inc. ("MEGTEC"), a subsidiary of Sequa Corporation. The Solvent Recovery unit provided turnkey on-site regenerable solvent recovery systems, distillation systems, on-site regenerable volatile organic compound concentrators, vapor-phase biological oxidation systems, and related services on a worldwide basis. The sale price of \$1.8 million included cash proceeds of approximately \$0.8 million and \$0.7 million of assumed liabilities, primarily accounts payable. The transaction was also subject to a pre-tax working capital adjustment of \$0.4 million, which management finalized and recorded in the fourth quarter of 2006. For the year ended December 31, 2007, the Company recorded a loss of \$0.2 million, net of tax, related to an indemnity claim. During the year ended December 31, 2006, the Company recorded a pre-tax gain of \$63 thousand or \$41 thousand, net of tax, on the sale of the Solvent Recovery business.

The following table details selected financial information for the businesses included within the discontinued operations in the Consolidated Statements of Income (Loss) and Comprehensive Income:

| (Dollars in thousands) | Charcoal/Liquid Year Ended December 31 | | | Solvent Recovery Year Ended December 31 | | |
|--|---|-------|----------|--|----------|----------|
| | 2008 | 2007 | 2006 | 2008 | 2007 | 2006 |
| Net sales | \$ - | \$ - | \$ 1,375 | \$ - | \$ - | \$ 2,775 |
| Income (loss) from operations | - | - | (589) | - | - | (161) |
| Other income (expense)-net | 4,353 | - | 4,715 | - | (302) | 63 |
| Income (loss) before income taxes | 4,353 | - | 4,126 | - | (302) | (98) |
| Provision (benefit) for income taxes | 1,560 | 45 | 2,848 | - | (91) | (34) |
| Income (loss) from discontinued operations | \$ 2,793 | \$ 45 | \$ 1,278 | \$ - | \$ (211) | \$ (64) |

4. Inventories

| (Thousands) | December 31 | |
|----------------|-------------|-----------|
| | 2008 | 2007 |
| Raw materials | \$ 27,241 | \$ 22,321 |
| Finished goods | 66,484 | 58,959 |
| Total | \$ 93,725 | \$ 81,280 |

Inventories at December 31, 2008 and 2007 are recorded net of reserves of \$1.5 million and \$1.6 million, respectively, for obsolete and slow-moving items.

5. Property, Plant and Equipment

| (Thousands) | December 31 | |
|---|-------------|------------|
| | 2008 | 2007 |
| Land and improvements | \$ 12,837 | \$ 13,381 |
| Buildings | 29,789 | 29,361 |
| Machinery, equipment and customer capital | 314,014 | 314,453 |
| Computer hardware and software | 17,057 | 18,897 |
| Furniture and vehicles | 7,737 | 8,274 |
| Construction-in-progress | 25,699 | 10,045 |
| | 407,133 | 394,411 |
| Less accumulated depreciation | (284,173) | (288,899) |
| Net | \$ 122,960 | \$ 105,512 |

Depreciation expense for the years ended December 31, 2008, 2007, and 2006 totaled \$15.1 million, \$15.5 million, and \$17.2 million, respectively.

Repair and maintenance expenses were \$8.3 million, \$7.9 million, and \$7.8 million for the years ended December 31, 2008, 2007, and 2006, respectively.

6. Goodwill and Other Identifiable Intangible Assets

The Company has elected to perform the annual impairment test of its goodwill, as required by SFAS No. 142, on December 31 of each year. For purposes of the test, the Company has identified reporting units, as defined within SFAS No. 142, at a regional level for the Activated Carbon and Service segment and at the technology level for the Equipment segment and has allocated goodwill to these reporting units accordingly. The goodwill associated with the Consumer segment is not material and has not been allocated below the segment level.

On November 14, 2006, the Federal Court of Canada found that the Company's patent for the use of ultraviolet light to prevent infection from Cryptosporidium in drinking water was invalid. As a result, the Company's estimate of future royalties used in determining the fair value of the UV reporting unit as of December 31, 2006 declined substantially from the prior year resulting in goodwill impairment of \$6.9 million. This impairment represents the difference between the implied fair value of goodwill for the UV reporting unit and the carrying value of the goodwill before recognition of the impairment.

The changes in the carrying amount of goodwill by segment for the years ended December 31, 2008 and 2007 are as follows:

| (Dollars in Thousands) | Activated Carbon and Service Segment | Equipment Segment | Consumer Segment | Total |
|---------------------------------|--|----------------------|---------------------|-----------|
| Balance as of January 1, 2007 | \$ 21,056 | \$ 6,381 | \$ 60 | \$ 27,497 |
| Foreign currency translation | 56 | 292 | - | 348 |
| Balance as of December 31, 2007 | 21,112 | 6,673 | 60 | 27,845 |
| Foreign currency translation | (1,149) | (356) | - | (1,505) |
| Balance as of December 31, 2008 | \$ 19,963 | \$ 6,317 | \$ 60 | \$ 26,340 |

The following is a summary of the Company's identifiable intangible assets as of December 31, 2008 and 2007, respectively:

| | December 31, 2008 | | | | |
|-------------------------------------|---|-----------------------------|---------------------|-----------------------------|---------------------------|
| | Weighted Average Amortization Period | Gross Carrying Amount | Foreign Exchange | Accumulated Amortization | Net Carrying Amount |
| Amortized Intangible Assets: | | | | | |
| Patents | 15.4 Years | \$ 1,369 | \$ - | \$ (961) | \$ 408 |
| Customer Relationships | 17.0 Years | 9,323 | (256) | (5,678) | 3,389 |
| License Agreement | 5.0 Years | 500 | - | (500) | - |
| Product Certification | 7.9 Years | 1,682 | - | (903) | 779 |
| Unpatented Technology | 20.0 Years | 2,875 | - | (1,521) | 1,354 |
| Total | 16.0 Years | \$ 15,749 | \$ (256) | \$ (9,563) | \$ 5,930 |

| | December 31, 2007 | | | | |
|-------------------------------------|---|-----------------------------|---------------------|-----------------------------|---------------------------|
| | Weighted Average Amortization Period | Gross Carrying Amount | Foreign Exchange | Accumulated Amortization | Net Carrying Amount |
| Amortized Intangible Assets: | | | | | |
| Patents | 15.4 Years | \$ 1,369 | \$ - | \$ (877) | \$ 492 |
| Customer Relationships | 17.0 Years | 9,323 | 30 | (4,743) | 4,610 |
| License Agreement | 5.0 Years | 500 | - | (416) | 84 |
| Product Certification | 7.9 Years | 1,682 | - | (625) | 1,057 |
| Unpatented Technology | 20.0 Years | 2,875 | - | (1,358) | 1,517 |
| Total | 16.0 Years | \$ 15,749 | \$ 30 | \$ (8,019) | \$ 7,760 |

For the years ended December 31, 2008, 2007, and 2006, the Company recognized \$1.5 million, \$1.8 million, and \$1.7 million, respectively, of amortization expense related to intangible assets for continuing operations. The Company estimates amortization expense to be recognized during the next five years as follows:

For the year ending December 31:

| | |
|------|----------|
| 2009 | \$ 1,299 |
| 2010 | \$ 1,155 |
| 2011 | \$ 847 |
| 2012 | \$ 657 |
| 2013 | \$ 582 |

7. Product Warranties

The Company establishes a warranty reserve for equipment project sales and estimates the warranty accrual based on the history of warranty claims to total sales, adjusted for significant known claims in excess of established reserves.

Warranty terms are based on the negotiated equipment project contract and typically are either 18 months from shipment date or 12 months from project startup date. The change in the warranty reserve, which is included in accounts payable and accrued liabilities in the consolidated balance sheets, is as follows:

| | 2008 | December 31, 2007 | 2006 |
|---|----------|----------------------|----------|
| Beginning Balance | \$ 1,123 | \$ 1,133 | \$ 1,028 |
| Payments and replacement product | (471) | (293) | (184) |
| Additions to warranty reserve for warranties issued during the period | 524 | 366 | 476 |
| Change in the warranty reserve for pre-existing warranties | (81) | (83) | (187) |
| Ending Balance | \$ 1,095 | \$ 1,123 | \$ 1,133 |

8. Borrowing Arrangements

| Long-Term Debt (Thousands) | December 31 | |
|---|--------------|---------------|
| | 2008 | 2007 |
| Convertible Senior Notes | \$ 6,000 | \$ 75,000 |
| Industrial revenue bonds | 2,925 | 2,925 |
| Total | 8,925 | 77,925 |
| Less current portion of long-term debt (net of debt discount) | (8,776) | (62,507) |
| Less debt discount | (149) | (2,493) |
| Net | \$ - | \$ 12,925 |

5.00% Convertible Senior Notes due 2036

On August 18, 2006, the Company issued \$75.0 million in aggregate principal amount of 5.00% Notes due in 2036 (the "Notes"). The Notes accrue interest at the rate of 5.00% per annum which is payable in cash semi-annually in arrears on each February 15 and August 15, which commenced February 15, 2007. The Notes will mature on August 15, 2036.

The Notes can be converted under the following circumstances: (1) during any calendar quarter (and only during such calendar quarter) commencing after September 30, 2006, if the last reported sale price of the Company's common stock is greater than or equal to 120% of the conversion price of the Notes for at least 20 trading days in the period of 30 consecutive trading days ending on the last trading day of the preceding calendar quarter; (2) during the five business day period after any 10 consecutive trading-day period (the "measurement period") in which the trading price per Note for each day in the measurement period was less than 103% of the product of the last reported sale price of the Company's common stock and the conversion rate on such day; or (3) upon the occurrence of specified corporate transactions described in the Offering Memorandum. On or after June 15, 2011, holders may convert their Notes at any time prior to the maturity date. Upon conversion, the Company will pay cash and shares of its common stock, if any, based on a daily conversion value (as described herein) calculated on a proportionate basis for each day of the 25 trading-day observation period.

For all of the quarterly periods during the years ended December 31, 2008 and 2007, the last reported sale price of the Company's common stock was greater than 120% of the conversion price of the Notes for at least 20 trading days in the period of 30 consecutive trading days ending on the last trading day of each of the aforementioned quarterly periods. As a result, the holders of the Notes have had the right to convert the Notes into cash and shares of common stock throughout 2008. During the period of August 20, 2008 through November 10, 2008, the Company converted and exchanged \$69.0 million of the Notes for cash of \$11.0 million and approximately 13.0 million shares of its common stock. Three million of the shares exchanged for principal amount of the Notes (in lieu of cash) were not previously included in the Company's diluted shares.

Due to the conversion rights of the holders of the Notes, the Company has classified the remaining principal amount of outstanding Notes as a current liability as of December 31, 2008.

The initial conversion rate is 196.0784 shares of the Company's common stock per \$1,000 principal amount of Notes, equivalent to an initial conversion price of approximately \$5.10 per share of common stock. The conversion rate is subject to adjustment in some events, including the payment of a dividend on the Company's common stock, but will not be adjusted for accrued interest, including any additional interest. In addition, following certain fundamental changes (principally related to changes in control) that occur prior to August 15, 2011, the Company will increase the conversion rate for holders who elect to convert Notes in connection with such fundamental changes in certain circumstances. The Company considered EITF 00-27 issue 7 which indicates that if a reset of the conversion rate due to a contingent event occurs, the Company would need to calculate if there is a beneficial conversion and record if applicable. Through December 31, 2008, no contingent events occurred.

The Company may not redeem the Notes before August 20, 2011. On or after that date, the Company may redeem all or a portion of the Notes at any time. Any redemption of the Notes will be for cash at 100% of the principal amount of the Notes to be redeemed, plus accrued and unpaid interest, including any additional interest, to, but excluding, the redemption date.

Holders may require the Company to purchase all or a portion of their Notes on each of August 15, 2011, August 15, 2016, and August 15, 2026. In addition, if the Company experiences specified types of fundamental changes, holders may require it to purchase the Notes. Any repurchase of the Notes pursuant to these provisions will be for cash at a price equal to 100% of the principal amount of the Notes to be purchased plus any accrued and unpaid interest, including any additional interest, to, but excluding, the purchase date.

The Notes are the Company's senior unsecured obligations, and rank equally in right of payment with all of its other existing and future senior indebtedness. The Notes are guaranteed by certain of the Company's domestic subsidiaries on a senior unsecured basis. The subsidiary guarantees are general unsecured senior obligations of the subsidiary guarantors and rank equally in right of payment with all of the existing and future senior indebtedness of the subsidiary guarantors. If the Company fails to make payment on the Notes, the subsidiary guarantors must make them instead. The Notes are effectively subordinated to any indebtedness of the Company's non-guarantor subsidiaries. The Notes are effectively junior to all of the Company's existing and future secured indebtedness to the extent of the value of the assets securing such indebtedness.

The Company sold the Notes to the original purchaser at a discount of \$3.3 million that is being amortized over a period of five years. The Company incurred original issuance costs of \$0.5 million which have been deferred and are being amortized over a five year period. The Company reclassified \$1.9 million of the discount and \$0.3 million of issuance costs to additional paid in capital as a result of the aforementioned conversions and exchanges of Notes that occurred during the year ended December 31, 2008. The Company will continue to amortize the respective remaining balances over the remainder of the five year period or the date of conversion/exchange, if sooner. For the year ended December 31, 2008, the Company recorded interest expense of \$3.2 million related to the Notes, of which \$0.5 million related to the amortization of the discount.

Credit Facility

On August 14, 2008, the Company entered into a third amendment to its Credit Facility (the "Third Amendment"). The Third Amendment permits borrowings in an amount up to \$60.0 million and includes a separate U.K. sub-facility and a separate Belgian sub-facility. The Credit Facility permits the total revolving credit commitment to be increased up to \$75.0 million. The facility matures on May 15, 2011. Availability for domestic borrowings under the Credit Facility is based upon the value of eligible inventory, accounts receivable and property, plant and equipment, with separate borrowing bases to be established for foreign borrowings under a separate U.K. sub-facility and a separate Belgian sub-facility. Availability under the Credit Facility is conditioned upon various customary conditions.

The Credit Facility is secured by a first perfected security interest in substantially all of the Company's assets, with limitations under certain circumstances in the case of capital stock of foreign subsidiaries. Certain of the Company's domestic subsidiaries unconditionally guarantee all indebtedness and obligations related to domestic borrowings under the Credit Facility. The Company and certain of its domestic subsidiaries also unconditionally guarantee all indebtedness and obligations under the U.K. sub-facility.

As of December 31, 2008, the collateral value of assets pledged was \$57.2 million. The collateral value as of December 31, 2008 for domestic, U.K., and Belgian borrowers were \$46.9 million, \$4.8 million, and \$5.5 million, respectively. The Credit Facility contains a fixed charge coverage ratio covenant which becomes effective when total domestic availability falls below \$11.0 million. As of December 31, 2008, total availability was \$45.6 million. Availability as of December 31, 2008 for domestic, U.K., and Belgian borrowers was \$38.3 million, \$3.7 million, and \$3.6 million, respectively. The Company can issue letters of credit up to \$20 million of the available commitment amount under the Credit Facility. Sub-limits for letters of credit under the U.K. sub-facility and the Belgian sub-facility are \$2.0 million and \$6.0 million, respectively. Letters of credit outstanding at December 31, 2008 totaled \$11.6 million.

The Credit Facility interest rate is based upon Euro-based ("LIBOR") rates with other interest rate options available. The applicable Euro Dollar margin in effect when the Company is in compliance with the terms of the facility ranges from 1.50% to 2.50% and is based upon the Company's overall availability under the Credit Facility. The unused commitment fee is equal to 0.375% per annum, which can increase to 0.50%, and is based upon the unused portion of the revolving commitment.

The Credit Facility contains a number of affirmative and negative covenants. As of December 31, 2008, the last reported sale price of the Company's common stock was greater than 120% of the conversion price of the Notes for at least 20 trading days in the period of 30 consecutive trading days ended December 31, 2008. As a result, as of December 31, 2008, the holders of the Notes have the right to convert the Notes into cash and shares of common stock. Included in the Credit Facility is a provision which permits the conversion of the outstanding amount of the Company's Notes. The Credit Facility also includes a provision for up to \$3.0 million of letters of credit in aggregate under the Company's U.S., Belgium, and UK sub-limits that can be issued having expiration dates that are more than one year but not more than three years after the date of issuance.

The negative covenants provide for certain restrictions on possible acts by the Company related to matters such as additional indebtedness, certain liens, fundamental changes in the business, certain investments or loans, asset sales and other customary requirements. The Company was in compliance with all such negative covenants as of December 31, 2008.

Industrial Revenue Bonds

The Mississippi Industrial Revenue Bonds totaling \$2.9 million at December 31, 2008 and 2007, respectively, bear interest at a variable rate and mature in April 2009. The interest rate as of December 31, 2008 was 1.33%. These bonds were issued to finance certain equipment acquisitions at the Company's Pearlinton, Mississippi plant.

Belgian Credit Facility

The Company maintains a Belgian credit facility totaling 1.5 million euros which is secured by a U.S. letter of credit. There are no financial covenants, and the Company had no outstanding borrowings under the Belgian credit facility as of December 31, 2008 and 2007. Bank guarantees of 0.8 million euros were issued as of December 31, 2008. The maturity date of this facility is September 30, 2009. Availability under this facility was 0.7 million euros at December 31, 2008.

Chinese Credit Facility

The Company maintains a Chinese credit facility totaling 11.0 million RMB or \$1.6 million which is secured by a U.S. letter of credit provided under the Credit Facility. There are no financial covenants. The maturity date of this facility is December 25, 2009. The facility was fully utilized at December 31, 2008.

Fair Value of Debt

At December 31, 2008, the Company had \$6.0 million of fixed rate Senior Convertible Notes outstanding. The fair value of these Notes at December 31, 2008 was \$18.0 million. The increase in value is mainly due to the increase in the Company's common stock price and its impact on the conversion features of the Notes. The remaining \$2.9 million of current portion of long-term debt is based on the prime rates, and accordingly, the carrying value of this obligation approximates its fair value.

Maturities of Debt

The Company is obligated to make principal payments on debt outstanding at December 31, 2008 of \$4.5 million in 2009 and \$6.0 million in 2011. See also the section entitled 5.00% Convertible Senior Notes due in 2036 related to the holders' optional conversion as of December 31, 2008 and 2007.

Interest Expense

The Company's interest expense for the years ended December 31, 2008, 2007, and 2006 totaled \$3.7 million, \$5.5 million, and \$6.0 million, respectively. These amounts are net of interest costs capitalized of \$0.4 million, \$0.2 million, and zero for the years ended December 31, 2008, 2007, and 2006, respectively.

9. Commitments

The Company has entered into leases covering principally office, research and warehouse space, office equipment and vehicles. Future minimum rental payments required under all operating leases that have remaining noncancelable lease terms in excess of one year are \$5.7 million in 2009, \$5.1 million in 2010, \$4.5 million in 2011, \$4.2 million in 2012, \$3.8 million in 2013 and \$7.8 million thereafter. Total rental expense on all operating leases was \$7.3 million, \$5.7 million, and \$6.6 million for the years ended December 31, 2008, 2007, and 2006, respectively.

The Company has in place long-term supply contracts for the purchase of raw materials, transportation, and information systems and services. The following table represents the total payments made for the purchases under the aforementioned supply contracts:

| (Thousands) | December 31 | | |
|----------------------------------|-------------|-----------|-----------|
| | 2008 | 2007 | 2006 |
| Raw and other materials | \$ 31,837 | \$ 22,145 | \$ 28,519 |
| Transportation | 5,733 | 4,840 | 4,494 |
| Information systems and services | 2,663 | 2,386 | 2,503 |
| Total payments | \$ 40,233 | \$ 29,371 | \$ 35,516 |

Future minimum purchase requirements under the terms of the aforementioned contracts are as follows:

| (Thousands) | Due in | | | | | |
|------------------------------------|-----------|-----------|-----------|----------|----------|------------|
| | 2009 | 2010 | 2011 | 2012 | 2013 | Thereafter |
| Raw and other materials | \$ 22,558 | \$ 21,983 | \$ 21,743 | \$ - | \$ - | \$ - |
| Transportation | 1,575 | 1,575 | 1,575 | 1,575 | 1,575 | 263 |
| Information systems and services | 2,042 | 2,042 | - | - | - | - |
| Total contractual cash obligations | \$ 26,175 | \$ 25,600 | \$ 23,318 | \$ 1,575 | \$ 1,575 | \$ 263 |

10. Shareholders' Equity

The Company's Board of Directors in 2000 authorized the purchase of up to 500,000 shares of the Company's stock. As of December 31, 2008, 11,300 shares have been purchased under this stock buy back program.

The Board of Directors adopted a new Stockholder Rights Plan in February 2005 designed to guard against (1) coercive and abusive tactics that might be used in an attempt to gain control of the Company without paying all stockholders a fair price for their share or (2) the accumulation of a substantial block of stock without offering to pay stockholders a fair control premium. The Rights Plan will not prevent takeovers, but is designed to preserve the Board's bargaining power and flexibility to deal with third-party acquirers and to otherwise seek to maximize value for all stockholders. The Plan awards one right for each outstanding share of common stock held by stockholders of record on February 3, 2005 and thereafter. Each right entitles the holder to purchase from the Company one unit of one ten-thousandth of a share of a newly created series of preferred stock at a purchase price of \$35 per unit. The rights will be exercisable only if a person or group acquires beneficial ownership of 10% or more of the Company's outstanding common stock (15% or more in the case of certain institutional investors) or commences a tender or exchange offer upon consummation of which such person or group would beneficially own 10% or more of the Company's common stock ("Acquiring Person"). If one of those events occurs, each holder of a right (with the exception of the acquiring person or group) will thereafter have the right to receive, upon exercise, common stock (or, in certain circumstances, cash, property or other of the Company's securities) having a value equal to two times the exercise price of the right. The Rights can be redeemed by the Board of Directors under certain circumstances, in which case the Rights will not be exchangeable for shares.

11. Stock Compensation Plans

At December 31, 2008, the Company had one stock-based compensation plan that was adopted in 2008 and is described below. The Employee and Non-Employee Directors' Stock Option Plans were terminated and superceded by the 2008 Equity Incentive Plan.

2008 Equity Incentive Plan

In 2008, the Company adopted an equity incentive plan for eligible employees, service providers, and non-employee directors of the Company and its subsidiaries. The maximum number of shares available for grants and awards is an aggregate of 2,000,000 shares and the plan also includes a fixed sub-limit for the granting of incentive stock options which is 1,500,000 shares. The awards may be stock options, restricted stock units, performance units or other stock-based awards. Stock options may be “nonstatutory” or “incentive.” The exercise price for options and stock appreciation rights shall not be less than the fair market value on the date of grant, except if an incentive stock option is granted to a “10% employee,” as defined by the plan, then the option price may not be less than 110% of such fair market value. Options and stock appreciation rights may be exercisable commencing with the grant date.

At December 31, 2007, the Company had two stock-based compensation plans of which both had stock-based awards outstanding as of December 31, 2008. The plans are described below.

Employee Stock Option Plan

The Employee Stock Option Plan for officers and other key employees of the Company permitted grants of stock options, restricted shares or restricted performance shares for up to 8,238,640 shares of the Company’s common stock. Stock options may be “nonstatutory” or “incentive” with a purchase price of not less than 100% of the fair market value on the date of grant. Stock appreciation rights may be granted at date of option grant or at any later date during the term of the option. “Incentive” stock options granted since 1986 become exercisable no less than six months after the date of grant and are no longer exercisable after the expiration of four to ten years from the date of grant.

Non-Employee Directors’ Stock Option Plan

The 1993 Non-Employee Directors’ Stock Option Plan, as last amended in 2005, provided for an annual grant on the day following the Annual Meeting of Stockholders of stock options equal to a Black-Scholes calculated value of \$25,000 per Director on the date of grant. The options vest and become exercisable six months after the date of grant and, in general, expire ten years after the date of grant.

Stock-Based Compensation Expense

In accordance with SFAS No. 123(R), compensation expense for stock options and stock appreciation rights (“SARs”) is recorded over the vesting period based on the fair value on the date of grant, as calculated by the Company using the Black-Scholes model and the assumptions listed below:

| | Years Ended December 31 | | |
|---|-------------------------|------------|------------|
| | 2008 | 2007 | 2006 |
| Average grant date exercise price per share of stock appreciation rights | - | - | \$ 6.19 |
| Average grant date exercise price per share of unvested awards – options \$ | 14.41 | \$ 7.89 | \$ 7.55 |
| Dividend yield | .00% | .00% | .00% |
| Expected volatility | 35% | 33-34% | 34-37% |
| Risk-free interest rates | 2.76% | 3.99-4.54% | 3.62-5.20% |
| Expected lives of options | 6 years | 3-6 years | 3-6 years |
| Average grant date fair value per share of stock appreciation rights | - | - | \$ 1.85 |
| Average grant date fair value per share of unvested option awards | \$ 5.64 | \$ 3.25 | \$ 3.03 |

The Dividend yield is based on the latest annualized dividend rate and the current market price of the underlying common stock at the date of grant.

Expected volatility is based on the historical volatility of the Company's stock and the implied volatility calculated from traded options on the Company's stock.

The Risk-free interest rates are based on the U.S. Treasury strip rate for the expected life of the option.

The Expected lives of options are determined from primarily historical stock option exercise data.

Stock Option Activity

The following tables show a summary of the status and activity of stock options for the year ended December 31, 2008:

Employee:

| | Shares | Weighted-Average Exercise Price | Weighted-Average Remaining Contractual Term (in years) | Aggregate Intrinsic Value (in thousands) |
|----------------------------------|-----------|---------------------------------|--|--|
| Outstanding at beginning of year | 1,574,525 | \$ 6.69 | | |
| Granted | 80,625 | 17.45 | | |
| Exercised | (420,761) | 6.71 | | |
| Canceled | (900) | 7.81 | | |
| Outstanding at December 31, 2008 | 1,233,489 | \$ 7.38 | 4.91 | \$ 9,466 |
| Exercisable at December 31, 2008 | 1,112,300 | \$ 6.62 | 4.48 | \$ 8,944 |

The weighted-average grant date fair value of employee stock options granted during the year ended December 31, 2008, 2007, and 2006 was \$6.76 per share, \$3.39 per share, and \$2.99 per share or \$0.5 million, \$0.3 million, and \$0.4 million, respectively. The total fair value of options vested during the year ended December 31, 2008, 2007, and 2006 was \$3.15 per share, \$3.08 per share, and \$2.70 per share, or \$0.3 million, \$0.3 million, and \$0.7 million, respectively.

Non-Employee Directors:

| | Shares | Weighted-Average Exercise Price | Weighted-Average Remaining Contractual Term (in years) | Aggregate Intrinsic Value (in thousands) |
|----------------------------------|-----------|---------------------------------|--|--|
| Outstanding at beginning of year | 464,867 | \$ 7.35 | | |
| Granted | - | - | | |
| Exercised | (331,175) | 7.30 | | |
| Canceled | (6,100) | 15.50 | | |
| Outstanding at December 31, 2008 | 127,592 | \$ 7.09 | 6.39 | \$ 965 |
| Exercisable at December 31, 2008 | 127,592 | \$ 7.09 | 6.39 | \$ 965 |

The weighted-average grant date fair value of non-employee director stock options granted during the years ended December 31, 2007 and 2006 was \$3.64 per share and \$3.15 per share, or \$0.2 million and \$0.2 million, respectively. The total fair value of options vested during the year ended December 31, 2008, 2007, and 2006 was \$5.31 per share, \$3.42 per share, and \$3.06 per share, or \$11 thousand, \$0.1 million and \$0.2 million, respectively.

During the year ended December 31, 2008, 2007, and 2006 the total intrinsic value of stock options exercised (i.e., the difference between the market price at exercise and the price paid by the employee or non-employee directors to exercise the option) was \$8.8 million, \$3.0 million, and \$11 thousand, respectively. The total amount of cash received from the exercise of options was \$5.1 million, \$3.1 million, and \$27 thousand, respectively.

Stock Awards

In accordance with SFAS No. 123(R), compensation expense for nonvested stock awards is recorded over the vesting period based on the fair value at the date of grant.

Nonvested restricted and performance restricted stock granted under the Company's Equity Incentive Plan is valued at the grant date fair value, which is the market price of the underlying common stock, and vest over service or performance periods that range from one to three years. Outstanding performance restricted stock awards, a type of award granted in 2005, vest in three tranches, subject to the Company's satisfaction of certain performance criteria during 2005, 2006, and 2007. All of the 64,400 shares vested in March 2008.

Additionally, performance stock awards, based on Total Shareholder Performance ("TSR"), vest subject to the satisfaction of performance goals, at the end of a three-year performance period. The number of performance stock awards that are scheduled to vest is a function of TSR. Under the terms of the TSR performance stock award, the Company's actual TSR for the performance period is compared to the results of its peer companies for the same period with the Company's relative position in the group determined by percentile rank. The actual award payout is determined by multiplying the target award by the performance factor percentage based upon the Company's percentile ranking and can vest at between zero and 200 percent of the target award. The initial grant date fair value of the TSR performance stock is determined using a Monte Carlo simulation model. The grant date fair value is expensed on a straight-line basis over the three-year performance period. The following significant assumptions were used:

| | Years Ended December 31 | | |
|--------------------------|-------------------------|------------|---------|
| | 2008 | 2007 | 2006 |
| Dividend yield | .00% | .00% | .00% |
| Expected volatility | 35-37% | 49-53% | 45.6% |
| Risk-free interest rates | 2.10-3.52% | 4.54-5.13% | 4.69% |
| Performance period | 3 years | 3 years | 3 years |

The following table shows a summary of the employee TSR performance stock awards outstanding as of December 31, 2008:

| TSR Performance Period | Fair Value (in thousands) | Minimum Shares | Target Shares | Maximum Shares |
|------------------------------|------------------------------|-------------------|------------------|-------------------|
| 2006-2008 | \$ 784 | - | 64,400 | 128,800 |
| 2007-2009 | 825 | - | 60,150 | 120,300 |
| 2008-2010 | 612 | - | 22,700 | 45,400 |

The following table shows a summary of the status and activity of nonvested stock awards for the year ended December 31, 2008:

Employee Non-vested Restricted Stock:

| | Performance Restricted Stock Awards | Restricted Stock Awards | TSR Performance Stock Awards (a) | Total | Weighted- Average Grant Date Fair Value (per share) |
|--------------------------------|---|----------------------------|---|-----------|---|
| Nonvested at January 1, 2008 | 69,600 | 435,766 | 124,550 | 629,916 | \$ 6.10 |
| Granted | - | 72,825 | 22,700 | 95,525 | 16.07 |
| Vested | (69,600) | (204,116) | - | (273,716) | 6.14 |
| Forfeited or Expired | - | (19,424) | - | (19,424) | 5.44 |
| Nonvested at December 31, 2008 | - | 285,051 | 147,250 | 432,301 | \$ 8.31 |

(a) The number of shares shown for the performance stock awards is based on the target number of share awards.

The following table presents information on performance restricted stock awards, restricted stock awards, and performance stock awards granted:

| | 2008 | 2007 | 2006 |
|--|----------|---------|---------|
| Number of shares granted | 95,525 | 412,180 | 257,200 |
| Weighted-average grant date fair value per share | \$ 16.07 | \$ 5.80 | \$ 5.91 |

Non-Employee Directors' Non-vested Restricted Stock:

| | Performance Restricted Stock Awards | Restricted Stock Awards | TSR Performance Stock Awards | Total | Weighted- Average Grant Date Fair Value (per share) |
|--------------------------------|---|----------------------------|------------------------------------|--------|---|
| Nonvested at January 1, 2008 | - | - | - | - | \$ - |
| Granted | - | 21,143 | - | 21,143 | 14.87 |
| Vested | - | - | - | - | - |
| Forfeited or Expired | - | - | - | - | - |
| Nonvested at December 31, 2008 | - | 21,143 | - | 21,143 | \$ 14.87 |

Compensation expense related to all stock-based compensation totaled \$2.9 million, \$2.9 million, and \$1.3 million for the years ended December 31, 2008, 2007, and 2006.

As of December 31, 2008, there was \$3.0 million of total future compensation cost related to nonvested share-based compensation arrangements and the weighted-average period over which this cost is expected to be recognized is approximately three years.

12. Pensions

The Company sponsors defined benefit plans covering substantially all employees. The Company uses a measurement date of December 31 for all of its pension plans.

For all U.S. plans, at December 31, 2008 and 2007 the projected benefit obligation and accumulated benefit obligation each exceed plan assets.

For U.S. plans, the following table provides a reconciliation of changes in the plans' benefit obligations and fair value of assets over the two-year period ended December 31, 2008 and the funded status as of December 31 for both years:

| (Thousands) | 2008 | 2007 |
|--|-------------|-------------|
| Change in Projected Benefit Obligations | | |
| Projected benefit obligations at January 1 | \$ 76,773 | \$ 79,888 |
| Service cost | 1,024 | 1,070 |
| Interest cost | 4,777 | 4,664 |
| Actuarial loss (gain) | 2,884 | (4,623) |
| Benefits paid | (3,096) | (2,207) |
| Settlement | - | (1,754) |
| Curtailement | (1,039) | (265) |
| Projected benefit obligations at December 31 | 81,323 | 76,773 |
| Change in Plan Assets | | |
| Fair value of plan assets at January 1 | 65,752 | 61,784 |
| Actual return on plan assets | (19,522) | 2,516 |
| Employer contributions | 4,085 | 5,413 |
| Settlement | - | (1,754) |
| Benefits paid | (3,096) | (2,207) |
| Fair value of plan assets at December 31 | 47,219 | 65,752 |
| Funded status at December 31 | \$ (34,104) | \$ (11,021) |
| Amounts recognized in the Balance sheet | | |
| Current liability – Accrued benefit cost | \$ (82) | \$ (82) |
| Noncurrent liability – Accrued benefit cost | (34,022) | (10,939) |
| Net amount recognized | \$ (34,104) | \$ (11,021) |

Amounts recognized in Accumulated Other Comprehensive Income consist of:

| (Thousands) | 2008 | 2007 |
|--|-----------|----------|
| Accumulated prior service cost | \$ 634 | \$ 1,142 |
| Accumulated net actuarial loss | 31,340 | 4,208 |
| Net amount recognized, before tax effect | \$ 31,974 | \$ 5,350 |

The 2007 settlement was the result of participants in the U.S. salaried plan receiving lump sums. The 2008 and 2007 curtailments were a result of the Company freezing the benefits under two of its bargaining unit plans as of January 1, 2009 and April 30, 2007, respectively.

The accumulated benefit obligation at the end of 2008 and 2007 was \$77.2 million and \$72.0 million, respectively.

For U.S. plans, the assumptions used to determine benefit obligations are shown in the following table:

| | 2008 | 2007 |
|--|-------|-------|
| Weighted average actuarial assumptions at December 31: | | |
| Discount rate | 6.06% | 6.15% |
| Rate of increase in compensation levels | 4.00% | 4.00% |

The asset allocation for the Company's pension plans at the end of 2008 and 2007, and the target allocation for 2009, by asset category, is as follows:

| Asset Category | Target Allocation | Percentage of Plan Assets at Year End | |
|-------------------|-------------------|---------------------------------------|--------|
| | 2009 | 2008 | 2007 |
| Equity securities | 68.0% | 69.9% | 74.3% |
| Debt securities | 30.0 | 30.1 | 25.1 |
| Other | 2.0 | - | 0.6 |
| Total | 100.0% | 100.0% | 100.0% |

The Company's investment strategy is to earn the highest possible long-term total rate of return while minimizing the associated risk to ensure the preservation of the plan assets for the provision of benefits to participants and their beneficiaries. This is accomplished by active management of a diversified portfolio by fund managers, fund styles, asset types, risk characteristics and investment holdings.

Information about the expected cash flows for the U.S. pension plans follows:

| Year | Pension Benefits (Thousand) |
|------------------------|--------------------------------|
| Employer contributions | |
| 2009 | \$ 1,070 |
| Benefit Payments | |
| 2009 | \$ 4,297 |
| 2010 | 4,778 |
| 2011 | 4,898 |
| 2012 | 5,082 |
| 2013 | 4,961 |
| 2014 – 2018 | 30,728 |

For U.S. plans, the following table provides the components of net periodic pension costs of the plans for the years ended December 31, 2008, 2007 and 2006:

| (Thousands) | Year Ended December 31 | | |
|---------------------------|------------------------|----------|----------|
| | 2008 | 2007 | 2006 |
| Service cost | \$ 1,024 | \$ 1,070 | \$ 2,459 |
| Interest cost | 4,777 | 4,664 | 4,884 |
| Expected return on assets | (5,388) | (4,994) | (4,375) |
| Prior service cost | 227 | 248 | 303 |
| Net amortization | 384 | 351 | 842 |
| Settlement | - | (122) | - |
| Curtailement | (480) | (265) | 788 |
| Net periodic pension cost | \$ 544 | \$ 952 | \$ 4,901 |

Other Changes in Plan Assets and Benefit Obligations Recognized in Other Comprehensive Income

| (Thousands) | Year Ended December 31 | |
|--|------------------------|------------|
| | 2008 | 2007 |
| Curtailement effect | \$ (558) | \$ 265 |
| Settlements | - | 122 |
| Current year actuarial loss (gain) | 27,793 | (2,410) |
| Amortization of actuarial loss | (384) | (351) |
| Amortization of prior service cost | (227) | (248) |
| Total recognized in other comprehensive income | \$ 26,624 | \$ (2,622) |
| Total recognized in net periodic pension cost and other comprehensive income | \$ 27,168 | \$ (1,670) |

The estimated amounts that will be amortized from accumulated other comprehensive income into net periodic pension cost in 2009 are as follows:

| | |
|----------------------|----------|
| Prior service cost | \$ 203 |
| Net actuarial loss | 2,048 |
| Total at December 31 | \$ 2,251 |

For U.S. plans, the assumptions used in the measurement of net periodic pension cost are shown in the following table:

| | 2008 | 2007 | 2006 |
|--|-------|-------|-------|
| Weighted average actuarial assumptions at December 31: | | | |
| Discount rate | 6.23% | 5.93% | 5.60% |
| Expected annual return on plan assets | 8.00% | 8.00% | 8.25% |
| Rate of increase in compensation levels | 4.00% | 4.00% | 4.00% |

The discount rates that the Company utilizes for its Qualified Plans to determine pension obligations are based on a review of long-term bonds that receive one of the two highest ratings given by a recognized rating agency. The expected rate of return on plan assets was determined by evaluating input from the Company's actuaries, including their review of asset class return expectations as well as long-term inflation assumptions. Projected returns are based on broad equity and bond indices that the Company uses to benchmark its actual asset portfolio performance based on its portfolio mix of approximately 68% equity securities, 30% debt securities, and 2% with other investments. The Company also takes into account the effect on its projected returns from any reasonably likely changes in its asset portfolio when applicable. Including the 2008 return of (28.74)%, the Company's 20-25 year return ranged from 7.45% to 9.41% on its benchmark portfolio.

For European plans, the following tables provide a reconciliation of changes in the plans' benefit obligations and fair value of assets over the two-year period ended December 31, 2008 and the funded status as of December 31 of both years:

| (Thousands) | 2008 | 2007 |
|--|-------------|-------------|
| Change in Projected Benefit Obligations | | |
| Projected benefit obligations at January 1 | \$ 36,363 | \$ 36,822 |
| Service cost | 765 | 783 |
| Interest cost | 2,140 | 1,885 |
| Employee contributions | 188 | 192 |
| Actuarial gain | (293) | (4,312) |
| Benefits paid | (1,311) | (1,519) |
| Foreign currency exchange rate changes | (6,920) | 2,512 |
| Projected benefit obligations at December 31 | 30,932 | 36,363 |
| Change in Plan Assets | | |
| Fair value of plan assets at January 1 | 23,143 | 19,842 |
| Actual return on plan assets | (2,198) | 840 |
| Employer contributions | 2,130 | 2,374 |
| Employee contributions | 188 | 192 |
| Benefits paid | (1,311) | (1,519) |
| Foreign currency exchange rate changes | (4,702) | 1,414 |
| Fair value of plan assets at December 31 | 17,250 | 23,143 |
| Funded Status at December 31 | \$ (13,682) | \$ (13,220) |
| Amounts recognized in the Balance sheet | | |
| Current liability – Accrued benefit cost | \$ (521) | \$ (541) |
| Noncurrent liability – Accrued benefit cost | (13,161) | (12,679) |
| Net amount recognized | \$ (13,682) | \$ (13,220) |

Amounts recognized in Accumulated Other Comprehensive Income as of December 31 consist of:

| (Thousands) | 2008 | 2007 |
|--|----------|----------|
| Accumulated net actuarial loss | \$ 3,584 | \$ 1,073 |
| Accumulated transition obligation | 74 | 139 |
| Net amount recognized, before tax effect | \$ 3,658 | \$ 1,212 |

The accumulated benefit obligation at the end of 2008 and 2007 was \$28.3 million and \$32.5 million, respectively.

For European plans, the assumptions used to determine end of year benefit obligations are shown in the following table:

| | 2008 | 2007 |
|--|-------|-------|
| Weighted average actuarial assumptions at December 31: | | |
| Discount rate | 5.69% | 5.68% |
| Rate of increase in compensation levels | 4.03% | 4.29% |

The asset allocation for the Company's European pension plans at the end of 2008 and 2007, and the target allocation for 2009, by asset category, follows:

| Asset Category | Target Allocation 2009 | Percent of Plan Assets at Year-End | |
|-------------------|---------------------------|---------------------------------------|--------|
| | | 2008 | 2007 |
| Equity Securities | 36.7% | 33.5% | 41.7% |
| Debt Securities | 48.3 | 50.7 | 42.2 |
| Other | 15.0 | 15.8 | 16.1 |
| Total | 100.0% | 100.0% | 100.0% |

At the end of 2008 and 2007, the projected benefit obligation, accumulated benefit obligation, and fair value of plan assets for European pension plans with a projected benefit obligation in excess of plan assets, and for pension plans with an accumulated benefit obligation in excess of plan assets, were as follows:

| (Thousands) | Projected Benefit Obligation Exceeds the Fair Value of Plan's Assets | | Accumulated Benefit Obligation Exceeds the Fair Value of Plan's Assets | |
|--------------------------------|---|-----------|--|-----------|
| | 2008 | 2007 | 2008 | 2007 |
| | Projected benefit obligation | \$ 30,932 | \$ 36,363 | \$ 24,169 |
| Accumulated benefit obligation | \$ 28,272 | \$ 32,524 | \$ 22,706 | \$ 27,611 |
| Fair value of plan assets | \$ 17,250 | \$ 23,143 | \$ 11,658 | \$ 17,562 |

Information about the expected cash flows for the European pension plans follows:

| Year | Pension Benefits (Thousands) |
|-------------------------------|------------------------------|
| Employer contributions | |
| 2009 | \$ 1,690 |
| Benefit Payments | |
| 2009 | \$ 1,381 |
| 2010 | 1,355 |
| 2011 | 1,658 |
| 2012 | 1,744 |
| 2013 | 1,387 |
| 2014 – 2018 | 7,354 |

Total benefits expected to be paid include both the Company's share of the benefit cost and the participants' share of the cost, which is funded by participant contributions to the plan.

For European plans, the following table provides the components of net periodic pension costs of the plans for the years ended December 31, 2008, 2007 and 2006:

| (Thousands) | Year Ended December 31 | | |
|---------------------------|------------------------|----------|----------|
| | 2008 | 2007 | 2006 |
| Service cost | \$ 765 | \$ 783 | \$ 871 |
| Interest cost | 2,140 | 1,885 | 1,560 |
| Expected return on assets | (1,529) | (1,405) | (1,128) |
| Net amortization | 83 | 157 | 226 |
| Net periodic pension cost | \$ 1,459 | \$ 1,420 | \$ 1,529 |

Other Changes in Plan Assets and Benefit Obligations
Recognized in Other Comprehensive Income

| (Thousands) | Year Ended December 31 | |
|--|------------------------|------------|
| | 2008 | 2007 |
| Current year actuarial loss (gain) | \$ 3,435 | \$ (3,746) |
| Amortization of actuarial loss | (29) | (109) |
| Amortization of transition obligation | (54) | (48) |
| Foreign currency exchange | (906) | 196 |
| Total recognized in other comprehensive income | \$ 2,446 | \$ (3,707) |
| Total recognized in net periodic pension cost and other comprehensive income | \$ 3,905 | \$ (2,287) |

The estimated amounts that will be amortized from accumulated other comprehensive income into net periodic pension cost in 2009 are as follows:

| | |
|---------------------------|--------|
| Net transition obligation | \$ 45 |
| Net actuarial loss | 108 |
| Total at December 31 | \$ 153 |

For European plans, the assumptions used in the measurement of the net periodic pension cost are shown in the following table:

| | 2008 | 2007 | 2006 |
|--|-------|-------|-------|
| Weighted average actuarial assumptions at December 31: | | | |
| Discount rate | 5.63% | 4.89% | 4.45% |
| Expected annual return on plan assets | 6.25% | 6.45% | 6.71% |
| Rate of increase in compensation levels | 4.08% | 3.90% | 3.80% |

The expected rate of return on plan assets was determined by evaluating input from the Company's actuaries, including their review of asset class return expectations as well as long-term inflation assumptions. Projected returns are based on broad equity and bond indices that the Company uses to benchmark its actual asset portfolio performance. The Company also takes into account the effect on its projected returns from any reasonably likely changes in its asset portfolio when applicable. At December 31, 2008, the Company's European portfolio contained approximately 8.2% less in equity securities compared to December 31, 2007 due primarily to a decline in the value of the equity securities. The portfolio's historical 10-year compounded rate of return is 5.04%.

The non-current portion of \$47.2 million and \$23.6 million at December 31, 2008 and 2007, respectively, for the U.S. and European pension liabilities is included in accrued pension and other liabilities.

The Company also sponsors a defined contribution pension plan for certain U.S. employees that permits employee contributions of up to 50% of eligible compensation in accordance with Internal Revenue Service guidance. Under this defined contribution plan, the Company makes a fixed contribution of 2% of eligible employee compensation on a quarterly basis and matches contributions made by each participant in an amount equal to 100% of the employee contribution up to a maximum of 2% of employee compensation. In addition, each of these employees is eligible for an additional discretionary Company contribution of up to 4% of employee compensation based upon annual Company performance at the discretion of the Company's Board of Directors. Employer matching contributions for non-represented employees vest after two years of service. For bargaining unit employees at the Catlettsburg, Kentucky facility, the Company contributes a maximum of \$25.00 per month to the plan. For bargaining unit employees at the Columbus, Ohio facility, the Company began making contributions to the USW 401(k) Plan of \$1.15 per actual hour worked for eligible employees when their former Barnebey Sutcliffe Employee USWA Local 23.08 401(k) Plan was discontinued and their defined benefit pension plan was frozen effective April 30, 2007. The Company realized a \$0.3 million curtailment gain as a result of freezing the aforementioned plan. For bargaining unit employees at the Neville Island facility, the Company, effective January 1, 2009, will begin making contributions of \$1.40 per actual hour worked to the defined contribution pension plan (Thrift/Savings Plan) for eligible employees when their defined benefit pension plan is frozen. Employer matching contributions for bargaining unit employees vest immediately. The Company realized a \$0.5 million curtailment gain in 2008 as a result of freezing the aforementioned plan. Total expenses related to the defined contribution plans for years ended December 31, 2008, 2007, and 2006 were \$2.0 million, \$1.9 million, and \$0.4 million, respectively.

13. Provision (Benefit) for Income Taxes

The components of the provision (benefit) for income taxes for continuing operations were as follows:

| (Thousands) | Year Ended December 31 | | |
|---|------------------------|-----------------|-------------------|
| | 2008 | 2007 | 2006 |
| Current | | | |
| Federal | \$ 11,765 | \$ 1,138 | \$ (1,090) |
| State and local | 829 | (17) | 19 |
| Foreign | 3,720 | 3,418 | 801 |
| | 16,314 | 4,539 | (270) |
| Deferred | | | |
| Federal | 1,740 | 706 | (1,762) |
| State and local | 398 | 292 | (978) |
| Foreign | (351) | 2,289 | 334 |
| | 1,787 | 3,287 | (2,406) |
| Provision (benefit) for income taxes for continuing operations | \$ 18,101 | \$ 7,826 | \$ (2,676) |

Income from continuing operations before income taxes and equity in income of equity investments includes income of \$16.9 million for 2008, income of \$12.1 million for 2007, and a loss of \$1.1 million for 2006 generated by operations outside the United States.

The difference between the U.S. federal statutory tax rate and the Company's effective income tax rate for continuing operations is as follows:

| | Year Ended December 31 | | |
|--|------------------------|--------------|--------------|
| | 2008 | 2007 | 2006 |
| U.S. federal statutory rate | 35.0% | 35.0% | 35.0% |
| State income taxes, net of federal income tax benefit | 1.6 | 1.2 | 5.2 |
| Non-deductible goodwill impairment | - | - | (17.1) |
| Tax rate differential on foreign income | (3.2) | 0.1 | (5.9) |
| Extraterritorial income exclusion | - | - | 4.8 |
| Net foreign tax credits | 0.5 | 4.9 | (1.0) |
| Tax statute expiration | (0.4) | (6.7) | 3.8 |
| Change in uncertain tax positions | 1.6 | 7.6 | - |
| Change in tax rates | - | (5.2) | - |
| Other – net | (0.8) | (0.2) | (2.4) |
| Effective income tax rate for continuing operations | 34.3% | 36.7% | 22.4% |

The Company's total provision for income taxes is shown below:

| (Thousands) | Year Ended December 31 | | |
|---|------------------------|-----------|------------|
| | 2008 | 2007 | 2006 |
| Continuing operations | \$ 18,101 | \$ 7,826 | \$ (2,676) |
| Discontinued operations | 1,560 | (91) | 2,814 |
| Other comprehensive income | (9,507) | 3,449 | 2,752 |
| Cumulative effect of change in accounting principle | - | - | (2,739) |
| Total provision for income taxes | \$ 10,154 | \$ 11,184 | \$ 151 |

The Company has the following gross operating loss carryforwards and domestic tax credit carryforwards as of December 31, 2008:

| Type (Thousands) | Amount | Expiration Date |
|--|-----------|-----------------|
| Foreign tax credits | \$ 12,177 | 2009-2018 |
| State tax credits | 766 | 2027 |
| Operating loss carryforwards – state* | 52,492 | 2010-2027 |
| Operating loss carryforwards - foreign | 213 | None |

*Of the total state operating loss carryforwards, approximately 90% expire in 2019 or later.

The components of deferred taxes consist of the following:

| (Thousands) | December 31 | |
|---|-------------|-----------|
| | 2008 | 2007 |
| Deferred tax assets** | | |
| State net operating loss and credit carryforwards*** | \$ 15,037 | \$ 13,090 |
| Accruals | 6,932 | 9,340 |
| Inventories | 5,764 | 4,119 |
| Pensions | 15,849 | 6,888 |
| Goodwill and other intangible assets | 268 | 2,770 |
| Valuation allowance | (7,977) | (6,218) |
| Total deferred tax assets | 35,873 | 29,989 |
| Deferred tax liabilities | | |
| Property, plant and equipment | \$ 11,797 | \$ 10,136 |
| U.S. liability on Belgian net deferred tax assets | 42 | 1,224 |
| U.S. liability on German net deferred tax assets | - | 2,575 |
| U.S. liability on deferred foreign income | 733 | 1,572 |
| Cumulative translation adjustment on undistributed earnings | 1,174 | 178 |
| Total deferred tax liabilities | 13,746 | 15,685 |
| Net deferred tax asset | \$ 22,127 | \$ 14,304 |

**FIN 48 liabilities of approximately \$60 thousand and \$2.3 million fully offset the foreign net operating losses and credit carryforwards in 2008 and 2007, respectively.

*** FIN 48 net indirect benefits of approximately \$2.4 million are included in the U.S. net operating loss and credit carryforwards in 2008. FIN 48 liabilities of approximately \$1.1 million offset the U.S. net operating loss and credit carryforwards in 2007.

A valuation allowance is established when it is more likely than not that a portion of the deferred tax assets will not be realized. The valuation allowance is adjusted based on the changing facts and circumstances, such as the expected expiration of an operating loss carryforward.

The Company's valuation allowance consists of the following:

| Thousands | U.S. Tax Credits | Foreign Tax Credits | Operating Loss Carryforwards | State Operating Loss Carryforwards | Foreign Operating Loss Carryforwards | Total Valuation Allowance |
|---|------------------|---------------------|------------------------------|------------------------------------|--------------------------------------|---------------------------|
| Balance as of January 1, 2007 | \$ 3,477 | | \$ 608 | \$ 608 | \$ 1,657 | \$ 5,742 |
| Increase due to uncertainty in realization of tax benefits | 2,441 | | - | - | - | 2,441 |
| Decrease due to expired net operating loss carryforwards | | - | (37) | (37) | (1,657) | (1,694) |
| Decrease due to utilization of state net operating loss carryforwards | | - | (271) | (271) | - | (271) |
| Balance as of December 31, 2007 | 5,918 | | 300 | 300 | - | 6,218 |
| Increase due to uncertainty of realization of tax benefit | 3,943 | | - | - | - | 3,943 |
| Decrease due to a reduction of tax benefits in current year | (1,946) | | - | - | - | (1,946) |
| Decrease due to utilization of state net operating loss carryforwards | | - | (238) | (238) | - | (238) |
| Balance as of December 31, 2008 | \$ 7,915 | | \$ 62 | \$ 62 | \$ - | \$ 7,977 |

The Company adopted FIN 48, effective January 1, 2007. FIN 48 clarifies the accounting for uncertainty in income taxes recognized in an enterprise's financial statements and prescribes a recognition threshold and measurement attribute for the financial statement recognition and measurement of a tax position taken or expected to be taken in tax returns. Upon adoption, the Company recorded a \$5.7 million increase in the gross unrecognized income tax benefits and a decrease in retained earnings of \$4.3 million. In conjunction with the adoption of FIN 48, the Company has classified uncertain tax positions as non-current income tax liabilities unless the amount is expected to be paid within one year. The following is a reconciliation of the unrecognized income tax benefits:

| Thousands | 2008 | 2007 |
|---|-----------|-----------|
| Balance at January 1 | \$ 11,953 | \$ 9,477 |
| Gross increases for tax positions of prior years | 1,919 | 124 |
| Gross decreases for tax positions of prior years | (2,100) | (1,187) |
| Gross increases for tax positions of current year | 809 | 4,476 |
| Lapse of statute of limitations | (332) | (937) |
| Balance at December 31 | \$ 12,249 | \$ 11,953 |

As of December 31, 2008 and 2007, approximately \$10.0 million of the \$12.2 million and \$12.0 million, respectively, of unrecognized tax benefits would reduce the Company's effective tax rate if recognized. Total uncertain tax positions recorded in accrued pension and other liabilities were approximately \$12.4 million and \$9.2 million for the year ended December 31, 2008 and 2007, respectively.

The Company recognizes accrued interest and penalties related to unrecognized tax benefits in income tax expense. In its initial adoption of FIN 48, the Company recognized approximately \$0.5 million of interest and penalties. During 2008 and 2007, the Company recognized approximately \$0.2 million and \$0.1 million, respectively, of interest and penalties. As of December 31, 2008 and 2007, the amount accrued for the payment of interest and penalties is approximately \$0.8 million and \$0.6 million, respectively.

At this time, the Company believes that it is reasonably possible that approximately \$5.2 million of the estimated unrecognized tax benefits as of December 31, 2008 will be recognized within the next twelve months based on the expiration of statutory review periods and the settlement of tax audits.

As of December 31, 2008, the following tax years remain subject to examination for the major jurisdictions where the Company conducts business:

| Jurisdiction | Years |
|---------------|-------------------------|
| United States | 2000, 2003, 2005 – 2008 |
| Kentucky | 2004 – 2008 |
| Canada | 2004 – 2008 |
| Pennsylvania | 2003 – 2008 |
| Germany | 2003 – 2008 |
| UK | 2002 – 2008 |
| Belgium | 1999 – 2008 |

14. Accumulated Other Comprehensive Income (Loss)

| | Currency Translation Adjustment | Pension Benefit Adjustments | Other | Accumulated Other Comprehensive Income (Loss) |
|----------------------------|---------------------------------------|-----------------------------------|----------|--|
| Balance, January 1, 2006 | \$ 14,635 | \$ (7,821) | \$ (372) | \$ 6,442 |
| Net Change | 4,644 | (585) | (196) | 3,863 |
| Balance, December 31, 2006 | 19,279 | (8,406) | (568) | 10,305 |
| Net Change | 2,557 | 3,648 | 498 | 6,703 |
| Balance, December 31, 2007 | 21,836 | (4,758) | (70) | 17,008 |
| Net Change | (4,744) | (17,959) | (755) | (23,458) |
| Balance, December 31, 2008 | \$ 17,092 | \$ (22,717) | \$ (825) | \$ (6,450) |

Foreign currency translation adjustments exclude income tax expense (benefit) for the earnings of the Company's non-U.S. subsidiaries as management believes these earnings will be reinvested for an indefinite period of time. Determination of the amount of unrecognized deferred U.S. income tax liability on these unremitted earnings is not practicable.

The income tax effect included in accumulated other comprehensive income (loss) for other non-U.S. subsidiaries was \$1.2 million at December 31, 2008 and \$0.2 million at December 2007 and 2006, respectively. The income tax benefit associated with SFAS No. 158 "Employers' Accounting for Defined Benefit Pension and Other Postretirement Plans" included in accumulated other comprehensive income was \$ 13.6 million, \$2.7 million, and \$4.5 million at December 31, 2008, 2007, and 2006, respectively.

15. Supplemental Cash Flow Information

Cash paid for interest for the years ended December 31, 2008, 2007, and 2006 was \$4.8 million, \$5.3 million, and \$4.6 million, respectively. Income taxes paid, net of refunds, for the years ended December 31, 2008, 2007, and 2006 was \$15.3 million, \$1.8 million, and \$0.7 million, respectively.

During the year ended December 31, 2008, the Company exchanged shares of its common stock for approximately \$58.0 million of its 5.00% Convertible Senior Notes. Refer to Note 8.

The Company has reflected \$1.9 million of its capital expenditures as a non-cash increase in accounts payable and accrued liabilities for the year ended December 31, 2008.

16. Derivative Instruments

The Company accounts for its derivative instruments under SFAS No. 133, as amended. This standard requires recognition of all derivatives as either assets or liabilities at fair value and may result in additional volatility in both current period earnings and other comprehensive income as a result of recording recognized and unrecognized gains and losses from changes in the fair value of derivative instruments.

The Company's corporate and foreign subsidiaries use forward exchange contracts and foreign currency option contracts to limit the exposure of exchange rate fluctuations on certain foreign currency receivables, payables, and other known and forecasted transactional exposures for periods consistent with the expected cash flow of the underlying transactions. The contracts generally mature within eighteen months and are designed to limit exposure to exchange rate fluctuations. The Company also uses cash flow hedges to limit the exposure to changes in natural gas prices. The contracts generally mature within one to thirty-six months.

At December 31, 2008, the Company had eighty-six derivative instruments outstanding of which one was a foreign currency swap, seventy-four were hedges utilizing foreign currency forward exchange contracts, and eleven were cash flow hedges utilizing forward contracts for the forecasted purchases of natural gas. The Company applied hedge accounting treatment for the foreign currency swap, sixty-six of the foreign currency forward exchange contracts, and the eleven cash flow hedges for forecasted purchases of natural gas. The aforementioned sixty-six foreign currency forward exchange contracts were treated as foreign cash flow hedges regarding payment for inventory purchases and will be released into operations based on the timing of the sales of the underlying inventory. Accordingly, the change in the fair value of these contracts of \$0.8 million, net of tax, as of December 31, 2008, was recorded in other comprehensive income (loss). The Company did not apply hedge accounting treatment for the remaining eight foreign currency forward exchange contracts and recorded an immaterial loss in other income. The change in fair value of the cash flow hedges for forecasted purchases of natural gas recorded in other comprehensive income (loss) was \$(1.2) million, net of tax, at December 31, 2008. The balance of the cash flow hedges for forecasted natural gas purchases recorded in accounts payable and accrued liabilities and accrued pension and other liabilities was \$1.2 million and \$1.0 million, respectively, as of December 31, 2008.

At December 31, 2007, the Company had sixteen derivative instruments outstanding of which one was a foreign currency swap, nine were foreign currency forward exchange contracts, and six were cash flow hedges for forecasted purchases of natural gas. The Company applied hedge accounting treatment for the foreign currency swap and the six cash flow hedges for forecasted natural gas purchases. The change in fair value of the cash flow hedges for the forecasted natural gas purchases recorded in other comprehensive income (loss) was \$(0.4) million, net of tax, as of December 31, 2007. The balance of the cash flow hedges for forecasted natural gas purchases recorded in accrued pension and other liabilities was \$0.3 million as of December 31, 2007.

On April 26, 2004, the Company entered into a ten-year foreign currency swap agreement to fix the foreign exchange rate on a \$6.5 million intercompany loan between the Company and its foreign subsidiary, Chemvicon Carbon Ltd. Since its inception, the foreign currency swap has been treated as a foreign exchange cash flow hedge. Accordingly, the change in the fair value of the foreign currency swap of \$(0.4) million and \$(0.1) million, respectively, for the years ended December 31, 2008 and 2007, was recorded in other comprehensive income (loss). The balance of the foreign currency swap recorded in other assets as of December 31, 2008 was \$0.7 million and \$0.8 million in accrued pension and other liabilities as of December 31, 2007.

No component of the derivative gains or losses has been excluded from the assessment of hedge effectiveness. For the years ended December 31, 2008 and 2007, the net gain or loss recognized due to the amount of hedge ineffectiveness was not material.

Management's policy for managing foreign currency risk is to use derivatives to hedge up to 75% of the forecasted intercompany sales to its European subsidiaries. The hedges involving foreign currency derivative instruments do not span a period greater than eighteen months from the contract inception date. Management uses various hedging instruments including, but not limited to foreign currency forward contracts, foreign currency option contracts, and foreign currency swaps. Management's policy for managing natural gas exposure is to use derivatives to hedge from 25% to 100% of the forecasted natural gas requirements. These cash flow hedges span up to thirty-six months from the contract inception date. Hedge effectiveness is measured on a quarterly basis and any portion of ineffectiveness is recorded directly to the Company's earnings.

17. Contingencies

The Company purchased the common stock of Advanced Separation Technologies Incorporated (“AST”) from Progress Capital Holdings, Inc. and Potomac Capital Investment Corporation on December 31, 1996. On January 12, 1998, the Company filed a claim for unspecified damages in the United States District Court for the Western District of Pennsylvania alleging among other things that Progress Capital Holdings and Potomac Capital Investment Corporation materially breached various AST financial and operational representations and warranties included in the Stock Purchase Agreement and had defrauded the Company. A jury returned a verdict in favor of the Company and against the defendants in the amount of \$10.0 million on January 26, 2007. After the Court denied all post-trial motions, including the defendants’ motion for a new trial and the Company’s motion for the award of prejudgment interest, all parties appealed to the United States Circuit Court of Appeals for the Third Circuit. The parties settled the case in January 2008 when the defendants agreed to pay the Company \$9.25 million. This sum was received and recorded into operations during February 2008. Of the settlement amount recorded into operations, approximately \$5.3 million was recorded in the Activated Carbon and Service segment and \$4.0 million was recorded in the Equipment segment.

In conjunction with the February 2004 purchase of substantially all of Waterlink’s operating assets and the stock of Waterlink’s U.K. subsidiary, several environmental studies were performed on Waterlink’s Columbus, Ohio property by environmental consulting firms which identified and characterized areas of contamination. In addition, these firms identified alternative methods of remediating the property, identified feasible alternatives and prepared cost evaluations of the various alternatives. The Company concluded from the information in the studies that a loss at this property is probable and recorded the liability as a component of noncurrent other liabilities in the Company’s consolidated balance sheet. At December 31, 2008 and 2007, the balance recorded was \$4.0 million. Liability estimates are based on an evaluation of, among other factors, currently available facts, existing technology, presently enacted laws and regulations, and the remediation experience of other companies. The Company has not incurred any environmental remediation expense for the years ended December 31, 2008 and 2007, but incurred \$0.1 million of expense in 2006. It is reasonably possible that a change in the estimate of this obligation will occur as remediation preparation and remediation activity commences in the future. The ultimate remediation costs are dependent upon, among other things, the requirements of any state or federal environmental agencies, the remediation methods employed, the final scope of work being determined, and the extent and types of contamination which will not be fully determined until experience is gained through remediation and related activities. The accrued amounts are expected to be paid out over the course of several years once work has commenced. The Company has yet to make a determination as to when it will proceed with remediation efforts.

On March 8, 2006, the Company and another U.S. producer of activated carbon formally requested that the United States Department of Commerce investigate unfair pricing of certain activated carbon imported from the People's Republic of China. The Commerce Department investigated imports of activated carbon from China that is thermally activated using a combination of heat, steam and/or carbon dioxide. Certain types of activated carbon from China, most notably chemically-activated carbon, were not investigated.

On March 2, 2007, the Commerce Department published its final determination (subsequently amended) that all of the subject merchandise from China was being unfairly priced, or dumped, and thus that special additional duties should be imposed to offset the amount of the unfair pricing. The final margins of dumping ranged from 61.95 percent ad valorem (i.e., of the entered value of the goods) to 228.11 percent ad valorem. A formal order imposing final duties was published on April 27, 2007. All imports from China remain subject to the order and antidumping duties. Importers of subject activated carbon from China are required to make cash deposits of estimated antidumping duties at the time the goods are entered into the United States customs territory. Deposits of duties are subject to future revision based on retrospective reviews conducted by the Commerce Department. With one limited exception, the amount of duties owed can decrease or increase based on the government's subsequent review of the actual prices at which the entries were sold.

The Company is both a domestic producer and one of the largest U.S. importers (from our wholly-owned subsidiary Calgon Carbon (Tianjin) Co., Ltd.) of the activated carbon that is subject to this proceeding. As such, the Company is involved in the Commerce Department's proceedings both as a domestic producer (a "petitioner") and as a foreign exporter (a "respondent").

As one of two U.S. producers involved as petitioners in the case, the Company is actively involved in ensuring the Commerce Department obtains the most accurate information from the foreign producers and exporters involved in the review, in order to calculate the most accurate results and margins of dumping for the sales at issue.

As an importer of activated carbon from China and in light of the successful antidumping duty case, the Company was required to pay deposits of estimated antidumping duties in the amount of 84.45 percent ad valorem to the Bureau of Customs and Border Protection ("Customs") on entries made on or after October 11, 2006 through April 9, 2007. Thereafter, deposits have been paid at 69.54 percent. Because of limits on the government's legal authority to impose provisional duties prior to issuance of a final determination, entries made between April 9, 2007 and April 19, 2007 were not subject to duties.

The Company's role as an importer that is required to pay duties results in a contingent liability related to the final amount of duties that will be paid. The Company has made deposits of estimated duties in two ways. First, estimated duties on entries in the period from October 11, 2006 through April 9, 2007 were covered by a bond. The total amount of duties that can be paid on entries in this period is capped as a matter of law, though the Company may receive a refund with interest of any difference due to a reduction in the actual margin of dumping found in the first review. The Company's estimated liability for duties during this period of \$0.8 million is reflected in accounts payable and accrued liabilities on the consolidated balance sheets at December 31, 2008 and 2007. Second, the Company has been required to post cash deposits of estimated duties owed on entries of subject merchandise since April 19, 2007. The final amount of duties owed on these entries may change, and can either increase or decrease depending on the final results of relevant administrative inquiries. This process is briefly described below.

As noted above, following the entry of merchandise, the amount of estimated antidumping duties paid is subject to later review and adjustment based on the actual amount of dumping that is found. To do this, the Commerce Department conducts annual reviews of sales made to the first unaffiliated U.S. customer, typically over the prior 12 month period. These reviews will be possible for at least five years, and can result in changes to the antidumping duty rate (either increasing or reducing the rate) applicable to any given foreign exporter. Revision of the margin of dumping has two effects. First, it will alter the actual amount of duties that Customs will seek to collect, by either increasing or decreasing the amount to reflect the actual amount of dumping that was found. Where the actual amount of duties owed increases, the government will require payment of the difference plus interest. Conversely, when the duty rate decreases, any difference is refunded with interest. Second, the revised rate becomes the cash deposit rate applied to future entries, and as such can either increase or decrease the amount of deposits an importer will be required to pay.

The Company currently is in the midst of the first such review. Because it is the first review conducted under the antidumping duty order, the review covers the period from October 11, 2006 through March 31, 2008 instead of the typical 12 month period. The preliminary results of the review are due no later than March 31, 2009, and the review must be completed no later than November 3, 2009. At this time, data submitted by the Company as well as others is continuing to be reviewed by Customs. Because there are multiple factors that will influence the final results, the Company is unable to estimate what, if any, adjustments to the current deposit rate will occur or the amount of additional deposits or refunds the Company may owe or receive, respectively.

Related to this, in early April 2009, the Commerce Department will publish a formal notice allowing parties to request the second annual administrative review of the antidumping duty order. Requests for review will be due no later than April 30, 2009.

The contingent liability resulting from duties paid on imports is somewhat mitigated by two factors. First and foremost, the antidumping duty order's disciplinary effect on the market encourages the elimination of dumping through fair pricing, and thus tends to provide the Company the ability to obtain an improved return on its investment and operations. Separately, pursuant to the Continued Dumping and Subsidy Offset Act of 2000 (repealed effective Feb. 8, 2006), as an affected domestic producer, the Company is eligible to apply for a distribution of a share of certain duties collected on entries of subject merchandise from China from April 27, 2007 to September 30, 2007. In July 2008, the Company applied for such a distribution. In December 2008, the Company received a distribution of approximately \$0.2 million, which reflected 59.57 percent of the total amount available. The Company anticipates receiving additional amounts in 2009 and future years, though the exact amount is impossible to determine.

Following protracted litigation in multiple jurisdictions, the U.S. Court of Appeals for the Federal Circuit held that the Company's process patents for the use of ultraviolet light to prevent infection from *Cryptosporidium* and *Giardia* in drinking water (the "UV patents") are invalid in the United States concluding the U.S. litigation relating to the UV patents. On March 3, 2008, the Supreme Court of Canada held that the Company's Canadian UV patents are invalid concluding the Canadian UV patent litigation. In March 2007, the Company and Trojan entered into a settlement whereby in exchange for a nominal cash payment and relief from legal fees, the Company granted Trojan Technologies, Inc. worldwide immunity from all current and future legal action related to the Company's UV patents. In 2007, a German trial court found that a competitor infringed the Company's UV patents with respect to medium pressure ultraviolet light, but did not infringe with respect to low pressure ultraviolet light. The Company appealed the decision relating to low pressure light. The competitor did not appeal. By order dated September 29, 2008, each party nominated an expert to provide opinions as to questions posed by the Court. The Court will then choose one of the experts nominated or choose another expert. The validity of the German UV patents, as distinguished from issues of infringement which were decided in the trial court, is the subject of pending administrative proceedings in Germany. The outcome of these cases has impaired the Company's ability to capitalize on substantial future revenues from the licensing of its UV patents.

By letter dated January 22, 2007, the Company received from the United States Environmental Protection Agency, Region 4 (“EPA”) a report of a hazardous waste facility inspection performed by the EPA and the Kentucky Department of Environmental Protection (“KYDEP”) as part of a Multi Media Compliance Evaluation of the Company’s Big Sandy Plant in Catlettsburg, Kentucky that was conducted on September 20 and 21, 2005. Accompanying the report was a Notice of Violation (“NOV”) alleging multiple violations of the Federal Resource Conservation and Recovery Act (“RCRA”) and corresponding EPA and KYDEP hazardous waste regulations. The alleged violations mainly concern the hazardous waste spent activated carbon regeneration facility. The Company met with the EPA on April 17, 2007 to discuss the inspection report and alleged violations, and submitted written responses in May and June 2007. In August 2007, the EPA notified the Company that it believes there were still significant violations of RCRA that are unresolved by the information in the Company’s responses, without specifying the particular violations. During a meeting with the EPA on December 10, 2007, the EPA indicated that the agency would not pursue certain other alleged violations. Based on discussions during the December 10, 2007 meeting, subsequent communications with EPA, and in connection with the Comprehensive Environmental Response, Compensation and Liability Act (“CERCLA”) Notice referred to below, the Company has taken actions to address and remediate a number of the unresolved alleged violations. The Company believes that the number of unresolved issues as to alleged continuing violations cited in the January 22, 2007 NOV has been reduced substantially. The EPA can take formal enforcement action to require the Company to remediate any or all of the unresolved alleged continuing violations which could require the Company to incur substantial additional costs. The EPA can also take formal enforcement action to impose substantial civil penalties with respect to violations cited in the NOV, including those which have been admitted or resolved. The Company is awaiting further response from the EPA and cannot predict with any certainty the probable outcome of this matter or range of potential loss, if any.

On July 3, 2008, the EPA verbally informed the Company that there are a number of unresolved RCRA violations at the Big Sandy Plant which may render the facility unacceptable to receive spent carbon for reactivation from sites regulated under the CERCLA pursuant to the CERCLA Off-Site Rule. The Company received written notice of the unacceptability determination on July 14, 2008 (the “Notice”). The Notice alleges multiple violations of RCRA and four releases of hazardous waste. The alleged violations and releases stem from the September 2005 multi-media compliance inspections, and are among those alleged in the January 2007 NOV described in the preceding paragraph. The Company originally had until September 1, 2008 to demonstrate to the EPA that the alleged violations and releases are not continuing, or else the Big Sandy Plant will not be able to receive spent carbon from CERCLA sites until the EPA determines that the facility is again acceptable to receive such CERCLA wastes. The Company met with the EPA on August 25, 2008 and the Company submitted a written response to the Notice prior to the meeting.

By letter dated August 18, 2008, the Company was notified by the EPA Suspension and Debarment Division (“SDD”) that because of the alleged violations described in the CERCLA Notice, the SDD was making an assessment of the Company’s present responsibility to conduct business with Federal Executive Agencies. Representatives of the SDD attended the August 25, 2008 EPA meeting. On August 28, 2008, the Company received a letter from the Division requesting additional information from the Company in connection with the SDD’s evaluation of the Company’s potential “business risk to the Federal Government,” noting that the Company engages in procurement transactions with or funded by the Federal Government. The Company provided the SDD with all information requested by the letter in September 2008. The SDD can suspend or debar a Company from sales to the federal government directly or indirectly through government contractors or with respect to projects funded by the federal government. In October 2008, the SDD indicated that it was still reviewing the matter but that another meeting with the Company was not warranted at the time. The Company believes that there is no basis for suspension or debarment on the basis of the matters asserted by the EPA in the Notice or otherwise.

By letter dated February 13, 2009, the EPA informed the Company that, based on information submitted by the Company indicating that the Big Sandy Plant has returned to physical compliance for the alleged violations and releases, the EPA has made an affirmative determination of acceptability for receipt of CERCLA wastes at the Big Sandy Plant. The EPA’s determination is conditioned upon the Company treating certain residues resulting from the treatment of the carbon reactivation furnace off-gas as hazardous waste and not sending material dredged from the onsite wastewater treatment lagoons offsite other than to a permitted hazardous waste treatment, storage or disposal facility. The Company has requested clarification from the EPA regarding the conditions. The Company is also in discussions with the EPA and KYDEP regarding the classification of these materials. If the Company is required to treat and/or dispose of the material dredged from the lagoon as hazardous waste, the costs for doing so could be substantial.

In June 2007, the Company received a Notice Letter from the New York State Department of Environmental Conservation (“NYSDEC”) stating that the NYSDEC had determined that the Company is a Potentially Responsible Party (“PRP”) at the Frontier Chemical Processing Royal Avenue Site in Niagara Falls, New York (the “Site”). The Notice Letter requests that the Company and other PRPs develop, implement and finance a remedial program for Operable Unit #1 at the Site. Operable Unit #1 consists of overburden soils and overburden and upper bedrock groundwater. The selected remedy is removal of above grade structures and contaminated soil source areas, installation of a cover system, and ground water control and treatment, estimated to cost between approximately \$11 million and \$14 million, which would be shared among the PRPs. The Company has not determined what portion of the costs associated with the remedial program it would be obligated to bear and the Company cannot predict with any certainty the outcome of this matter or range of potential loss. The Company has joined a PRP group and has executed a Joint Defense Agreement with the group members. In August 2008, the Company and over 100 PRP’s entered into a Consent Order with NYSDEC for additional site investigation directed toward characterization of the Site to better define the scope of the remedial project. The Company contributed monies to the PRP group to help fund the work required under the Consent Order. The field work was initiated in 2008 but suspended due the onset of winter. The group plans to complete the work in the spring of 2009.

By letter dated July 3, 2007, the Company received an NOV from the KYDEP alleging that the Company has violated the KYDEP's hazardous waste management regulations in connection with the Company's hazardous waste spent activated carbon regeneration facility located at the Big Sandy Plant in Catlettsburg, Kentucky. The NOV alleges that the Company has failed to correct deficiencies identified by the KYDEP in the Company's Part B hazardous waste management facility permit application and related documents and directed the Company to submit a complete and accurate Part B application and related documents and to respond to the KYDEP's comments which were appended to the NOV. The Company submitted a response to the NOV and the KYDEP's comments in December 2007 by providing a complete revised permit application. The KYDEP has not indicated whether or not it will take formal enforcement action, and has not specified a monetary amount of civil penalties it might pursue in any such action, if any. KYDEP can also deny the Part B operating permit. On October 18, 2007, the Company received an NOV from the EPA related to this permit application and submitted a revised application to both the KYDEP and the EPA within the mandated timeframe. The EPA has not indicated whether or not it will take formal enforcement action, and has not specified a monetary amount of civil penalties it might pursue in any such action. EPA can also deny the Part B operating permit. At this time the Company cannot predict with any certainty the outcome of this matter or range of loss, if any.

On March 20, 2007, the Company and ADA-ES entered into a Memorandum of Understanding ("MOU") providing for cooperation between the companies to attempt to jointly market powdered activated carbon ("PAC") to the electric power industry for the removal of mercury from coal fired power plant flue gas. The MOU provided for commissions to be paid to ADA-ES in respect of product sales. The Company terminated the MOU effective as of August 24, 2007 for convenience. Neither party had entered into sales or supply agreements with prospective customers as of that date. On March 3, 2008, the Company entered into a supply agreement with a major U.S. power generator for the sale of powdered activated carbon products with a minimum purchase obligation of approximately \$55 million over a 5 year period. ADA-ES claimed that it is entitled to commissions of an amount of at least \$8.25 million over the course of the 5 year contract, which the Company denies. On September 29, 2008, the Company filed suit in the United States District Court for the Western District of Pennsylvania for a declaratory judgment from the Court that the Company has no obligation to pay ADA-ES commissions related to this contract or for any future sales made after August 24, 2007.

The Company owns a 49% interest in a joint venture, Calgon Mitsubishi Chemical Corporation, which was formed on October 1, 2002. At December 31, 2008, Calgon Mitsubishi Chemical Corporation had \$25.1 million in borrowings from an affiliate of the majority owner of the joint venture. The Company has agreed with the joint venture and the lender that, upon request by the lender, the Company will execute a guarantee for up to 49% of such borrowings. At December 31, 2008, the lender had not requested, and the Company has not provided, such guarantee.

In addition to the matters described above, the Company is involved in various other legal proceedings, lawsuits and claims, including employment, product warranty and environmental matters of a nature considered normal to its business. It is the Company's policy to accrue for amounts related to these legal matters when it is probable that a liability has been incurred and the loss amount is reasonably estimable. Management believes that the ultimate liabilities, if any, resulting from such lawsuits and claims will not materially affect the consolidated financial position or liquidity of the Company, but an adverse outcome could be material to the results of operations in a particular period in which a liability is recognized.

18. Basic and Diluted Net Income (Loss) from Continuing Operations Per Common Share

Computation of basic and diluted net income (loss) per common share from continuing operations is performed as follows:

| (Dollars in thousands, except per share amounts) | For the Year Ended | | |
|---|--------------------|------------|------------|
| | 2008 | 2007 | 2006 |
| Income (loss) from continuing operations available to common shareholders | \$ 35,564 | \$ 15,453 | \$ (9,012) |
| Weighted Average Shares Outstanding | | | |
| Basic | 44,679,169 | 39,788,063 | 39,926,572 |
| Effect of Dilutive Securities | 8,706,256 | 10,769,218 | - |
| Diluted | 53,385,425 | 50,557,281 | 39,926,572 |
| Basic net income (loss) from continuing operations per common share | \$.80 | \$.39 | \$ (.23) |
| Diluted net income (loss) from continuing operations per common share | \$.67 | \$.31 | \$ (.23) |

For the years ended December 31, 2008, 2007 and 2006, there were 80,625, 8,100, and 1,832,513 options, respectively, that were excluded from the dilutive calculations as the effect would have been antidilutive.

The Company's obligation under its Notes is to settle the par value of the Notes in cash and to settle the amount in excess of par value with its common shares. Therefore, the Company is not required to include any shares underlying the Notes in its diluted weighted average shares outstanding until the average stock price per share for the quarter exceeds the \$5.10 conversion price. At such time, only the number of shares that would be issuable (under the "treasury stock" method of accounting for share dilution) will be included, which is based upon the amount by which the average stock price exceeds the conversion price. The dilutive effect of the Notes was calculated based on the weighted average number of incremental shares included in each quarterly diluted earnings per share computation. During the last half of 2008, all but \$6.0 million of the Notes was either exchanged or converted (See Note 8). The potential dilution at various stock prices for the remaining \$6.0 million of principal Notes outstanding is not material.

19. SEGMENT INFORMATION

The Company's management has identified three segments based on product line and associated services. Those segments include Activated Carbon and Service, Equipment, and Consumer. The Company's chief operating decision maker, its chief executive officer, receives and reviews financial information in this format. The Activated Carbon and Service segment manufactures granular activated carbon for use in applications to remove organic compounds from liquids, gases, water, and air. This segment also consists of services related to activated carbon including reactivation of spent carbon and the leasing, monitoring, and maintenance of carbon fills at customer sites. The service portion of this segment also includes services related to the Company's ion exchange technologies for treatment of groundwater and process streams. The Equipment segment provides solutions to customers' air and water process problems through the design, fabrication, and operation of systems that utilize the Company's enabling technologies: carbon adsorption, ultraviolet light, and advanced ion exchange separation. The Consumer segment brings the Company's purification technologies directly to the consumer in the form of products and services including carbon cloth and activated carbon for household odors. The following segment information represents the results of continuing operations:

| (Thousands) | Year Ended December 31 | | |
|------------------------------|------------------------|------------|------------|
| | 2008 | 2007 | 2006 |
| Net sales | | | |
| Activated Carbon and Service | \$ 342,326 | \$ 295,608 | \$ 265,279 |
| Equipment | 47,288 | 41,328 | 37,884 |
| Consumer | 10,656 | 14,188 | 12,959 |
| Consolidated net sales | \$ 400,270 | \$ 351,124 | \$ 316,122 |

| (Thousands) | Year Ended December 31 | | |
|---|------------------------|-----------|----------|
| | 2008 | 2007 | 2006 |
| Income (loss) from continuing operations before amortization and goodwill impairment charge | | | |
| Activated Carbon and Service | \$ 53,368 | \$ 28,038 | \$ 8,475 |
| Equipment | 6,018 | (1,715) | (5,748) |
| Consumer | (159) | 2,029 | 1,347 |
| | \$ 59,227 | \$ 28,352 | \$ 4,074 |

Reconciling items:

| | | | |
|--|-----------|-----------|-------------|
| Goodwill impairment charge | - | - | (6,940) |
| Amortization | (1,544) | (1,796) | (1,744) |
| Interest income | 1,504 | 1,695 | 822 |
| Interest expense | (3,673) | (5,508) | (5,977) |
| Other expense—net | (2,703) | (1,441) | (2,209) |
| Consolidated income (loss) from continuing operations before income taxes and equity in income of equity investments | \$ 52,811 | \$ 21,302 | \$ (11,974) |

| (Thousands) | Year Ended December 31 | | |
|--|------------------------|-----------|-----------|
| | 2008 | 2007 | 2006 |
| Depreciation | | | |
| Activated Carbon and Service | \$ 13,854 | \$ 14,542 | \$ 16,220 |
| Equipment | 997 | 628 | 687 |
| Consumer | 279 | 282 | 282 |
| | \$ 15,130 | \$ 15,452 | \$ 17,189 |
| Amortization | 1,544 | 1,796 | 1,744 |
| Consolidated depreciation and amortization | \$ 16,674 | \$ 17,248 | \$ 18,933 |

| (Thousands) | December 31 | | |
|------------------------------|-------------|------------|------------|
| | 2008 | 2007 | 2006 |
| Total assets | | | |
| Activated Carbon and Service | \$ 334,952 | \$ 302,432 | \$ 277,134 |
| Equipment | 38,914 | 32,046 | 34,031 |
| Consumer | 13,730 | 13,662 | 11,199 |
| Consolidated total assets | \$ 387,596 | \$ 348,140 | \$ 322,364 |

| (Thousands) | Year Ended December 31 | | |
|--|------------------------|-----------|-----------|
| | 2008 | 2007 | 2006 |
| Property, plant and equipment expenditures | | | |
| Activated Carbon and Service | \$ 33,033 | \$ 10,947 | \$ 11,728 |
| Equipment | 1,294 | 684 | 1,127 |
| Consumer | 615 | 158 | - |
| Consolidated property, plant and equipment expenditures ⁽¹⁾ | \$ 34,942 | \$ 11,789 | \$ 12,855 |

(1) Includes \$1.9 million which is included in accounts payable and accrued liabilities at December 31, 2008.

Net Sales by Product:

| (Thousands) | Year Ended December 31 | | |
|------------------------|------------------------|------------|------------|
| | 2008 | 2007 | 2006 |
| Carbon products | \$ 317,940 | \$ 267,934 | \$ 241,974 |
| Capital equipment | 35,155 | 31,601 | 28,119 |
| Equipment leasing | 16,020 | 13,943 | 14,789 |
| Carbon cloth products | 12,133 | 11,262 | 8,639 |
| Spare parts | 8,581 | 9,727 | 9,765 |
| Home consumer products | 2,074 | 2,926 | 4,320 |
| Other services | 8,367 | 13,731 | 8,516 |
| Total sales | \$ 400,270 | \$ 351,124 | \$ 316,122 |

GEOGRAPHIC INFORMATION

| (Thousands) | Year Ended December 31 | | |
|------------------------|------------------------|------------|------------|
| | 2008 | 2007 | 2006 |
| Net sales | | | |
| United States | \$ 218,864 | \$ 192,843 | \$ 175,649 |
| United Kingdom | 25,913 | 28,569 | 26,121 |
| Canada | 17,721 | 13,312 | 10,439 |
| Germany | 17,111 | 17,056 | 16,039 |
| France | 16,562 | 13,953 | 11,249 |
| Belgium | 10,888 | 8,738 | 7,860 |
| Japan | 10,656 | 10,304 | 9,689 |
| China | 9,127 | 3,954 | 2,179 |
| Netherlands | 7,336 | 5,192 | 3,813 |
| Spain | 6,702 | 5,565 | 5,600 |
| Mexico | 5,317 | 4,285 | 5,047 |
| Switzerland | 5,286 | 4,492 | 3,985 |
| Finland | 3,427 | 2,534 | 2,184 |
| Italy | 3,272 | 2,807 | 3,184 |
| Other | 42,088 | 37,520 | 33,084 |
| Consolidated net sales | \$ 400,270 | \$ 351,124 | \$ 316,122 |

Net sales are attributable to countries based on location of customer.

| (Thousands) | December 31 | | |
|--------------------------------|-------------|------------|------------|
| | 2008 | 2007 | 2006 |
| Long-lived assets | | | |
| United States | \$ 113,528 | \$ 95,142 | \$ 103,256 |
| Belgium | 25,455 | 25,343 | 21,216 |
| Japan | 11,566 | 9,148 | 6,783 |
| United Kingdom | 8,620 | 11,684 | 12,096 |
| China | 7,382 | 7,209 | 7,129 |
| Germany | 3,963 | 61 | 59 |
| Canada | 3,029 | 3,454 | 2,873 |
| France | 2 | 2 | 15 |
| | 173,545 | 152,043 | 153,427 |
| Deferred taxes | 13,129 | 6,419 | 20,225 |
| Consolidated long-lived assets | \$ 186,674 | \$ 158,462 | \$ 173,652 |

20. Related Party Transactions

Net sales to related parties and receivables from related parties primarily reflect sales of activated carbon products to equity investees. Generally, transactions are conducted under long-term contractual arrangements. Related party sales transactions were \$10.2 million, \$9.6 million, and \$9.4 million for the years ended December 31, 2008, 2007, and 2006, respectively. Receivables from equity investees amounted to \$2.2 million and \$2.4 million at December 31, 2008 and 2007, respectively. The Company's equity investees are included in the Activated Carbon and Service segment.

21. Other Financial Information

As described in Note 8, the Company has issued \$75.0 million in aggregate principal amount of 5.00% Convertible Senior Notes due in 2036. The Notes are fully and unconditionally guaranteed by certain of our domestic subsidiaries on a senior unsecured basis. All of the subsidiary guarantors are 100% owned by the Company and the guarantees are joint and several. The subsidiary guarantees are general unsecured senior obligations of the subsidiary guarantors and rank equally in right of payment with all of the existing and future senior indebtedness of the subsidiary guarantors. If the Company fails to make payment on the Notes, the subsidiary guarantors must make them instead. The Notes are effectively subordinated to any indebtedness of the Company's non-guarantor subsidiaries. The Notes are effectively junior to all of the Company's existing and future secured indebtedness to the extent of the value of the assets securing such indebtedness.

Condensed consolidating unaudited financial information for Calgon Carbon Corporation (issuer); Calgon Carbon Investments, Inc., Chemviron Carbon Ltd., Waterlink (UK) Holdings Ltd., Sutcliffe Speakman Ltd., Lakeland Processing Ltd., Charcoal Cloth (International) Ltd., BSC Columbus, LLC, and CCC Columbus, LLC (guarantor subsidiaries); and the non-guarantor subsidiaries are as follows:

Condensed Consolidating Statements of Income (Loss)
Year ended December 31, 2008

| | Issuer | Guarantor Subsidiaries | Non-Guarantor Subsidiaries | Consolidating and Eliminating Entries | Consolidated |
|--|------------|---------------------------|-------------------------------|--|--------------|
| Net sales | \$ 379,369 | \$ 46,414 | \$ 57,096 | \$ (82,609) | \$ 400,270 |
| Cost of products sold | 266,970 | 36,553 | 45,971 | (82,609) | 266,885 |
| Depreciation and amortization | 14,347 | 1,577 | 750 | - | 16,674 |
| Selling, general and administrative expenses | 55,249 | 4,701 | 4,199 | - | 64,149 |
| Research and development expense | 3,747 | 382 | - | - | 4,129 |
| Gain on AST Settlement | (9,250) | - | - | - | (9,250) |
| Interest (income) expense - net | 16,138 | (13,139) | (830) | - | 2,169 |
| Other expense – net | 2,172 | 374 | 157 | - | 2,703 |
| Provision for income taxes | 17,114 | 285 | 702 | - | 18,101 |
| Results of affiliates' operations | 25,475 | 876 | - | (26,351) | - |
| Equity in income of equity investments | - | - | 854 | - | 854 |
| Income from continuing operations | 38,357 | 16,557 | 7,001 | (26,351) | 35,564 |
| Income from discontinued operations | - | - | 2,793 | - | 2,793 |
| Net income | \$ 38,357 | \$ 16,557 | \$ 9,794 | \$ (26,351) | \$ 38,357 |

Condensed Consolidating Statements of Income (Loss)
Year ended December 31, 2007

| | Issuer | Guarantor Subsidiaries | Non-Guarantor Subsidiaries | Consolidating and Eliminating Entries | Consolidated |
|---|------------|---------------------------|-------------------------------|--|--------------|
| Net sales | \$ 306,866 | \$ 46,782 | \$ 49,069 | \$ (51,593) | \$ 351,124 |
| Cost of products sold | 219,088 | 35,439 | 39,339 | (51,593) | 242,273 |
| Depreciation and amortization | 13,885 | 1,098 | 2,265 | - | 17,248 |
| Selling, general and administrative expenses | 52,792 | 4,925 | 3,631 | - | 61,348 |
| Research and development expense | 3,317 | 382 | - | - | 3,699 |
| Interest (income) expense - net | 20,723 | (15,985) | (925) | - | 3,813 |
| Other (income) expense – net | 1,298 | 1,351 | (1,208) | - | 1,441 |
| Provision for income taxes | 4,216 | 1,184 | 2,426 | - | 7,826 |
| Results of affiliates' operations | 23,695 | 41 | - | (23,736) | - |
| Equity in income (loss) of equity investments | - | - | 1,980 | (3) | 1,977 |
| Income (loss) from continuing operations | 15,242 | 18,429 | 5,521 | (23,739) | 15,453 |
| Income (loss) from discontinued operations | 45 | (211) | - | - | (166) |
| Net income (loss) | \$ 15,287 | \$ 18,218 | \$ 5,521 | \$ (23,739) | \$ 15,287 |

Condensed Consolidating Statements of Income (Loss)
Year ended December 31, 2006

| | Issuer | Guarantor Subsidiaries | Non-Guarantor Subsidiaries | Consolidating and Eliminating Entries | Consolidated |
|--|------------|---------------------------|-------------------------------|--|--------------|
| Net sales | \$ 278,914 | \$ 43,106 | \$ 41,986 | \$ (47,884) | \$ 316,122 |
| Cost of products sold | 214,570 | 35,711 | 34,276 | (47,884) | 236,673 |
| Depreciation and amortization | 15,708 | 1,123 | 2,102 | - | 18,933 |
| Selling, general and administrative expenses | 46,754 | 3,558 | 3,619 | - | 53,931 |
| Research and development expense | 3,890 | 358 | - | - | 4,248 |
| Restructuring/impairment charges | 1,097 | - | 5,850 | - | 6,947 |
| Interest (income) expense - net | 20,579 | (14,684) | (740) | - | 5,155 |
| Other (income) expense – net | 1,707 | 1,254 | (752) | - | 2,209 |
| Benefit for income taxes | (2,271) | (191) | (214) | - | (2,676) |
| Results of affiliates' operations | 15,306 | (635) | - | (14,671) | - |

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| | | | | | |
|--|------------|-----------|---------|-------------|------------|
| Equity in income of equity investments | - | - | 283 | 3 | 286 |
| Income (loss) from continuing operations | (7,814) | 15,342 | (1,872) | (14,668) | (9,012) |
| Income (loss) from discontinued operations | 16 | (79) | 2,265 | (988) | 1,214 |
| Net income (loss) | \$ (7,798) | \$ 15,263 | \$ 393 | \$ (15,656) | \$ (7,798) |

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Condensed Consolidating Balance Sheets
December 31, 2008

| | Issuer | Guarantor Subsidiaries | Non-Guarantor Subsidiaries | Consolidating and Eliminating Entries | Consolidated |
|--|------------|---------------------------|-------------------------------|---|--------------|
| Cash and Cash Equivalents | \$ 1,598 | \$ 3,067 | \$ 23,351 | \$ (11,266) | \$ 16,750 |
| Receivables | 53,709 | 13,443 | 5,547 | (8,184) | 64,515 |
| Inventories | 78,517 | 6,509 | 8,638 | 61 | 93,725 |
| Other current assets | 22,282 | 921 | 2,729 | - | 25,932 |
| Total current assets | 156,106 | 23,940 | 40,265 | (19,389) | 200,922 |
| Intercompany accounts receivable | 53,704 | 185,535 | 4,526 | (243,765) | - |
| Property, plant, and equipment, net | 109,348 | 5,872 | 7,740 | - | 122,960 |
| Intangibles | 3,506 | 2,424 | - | - | 5,930 |
| Goodwill | 16,674 | 7,189 | 2,477 | - | 26,340 |
| Equity investments | 267,730 | 100,202 | 11,566 | (367,751) | 11,747 |
| Other assets | 13,081 | 1,928 | 4,688 | - | 19,697 |
| Total assets | \$ 620,149 | \$ 327,090 | \$ 71,262 | \$ (630,905) | \$ 387,596 |
| Short-term debt | \$ - | \$ - | \$ 1,605 | \$ - | \$ 1,605 |
| Current portion of long-term debt | 8,776 | - | - | - | 8,776 |
| Accounts payable | 36,081 | 15,317 | 2,887 | (9,999) | 44,286 |
| Other current liabilities | 24,529 | 278 | 1,621 | (14,678) | 11,750 |
| Total current liabilities | 69,386 | 15,595 | 6,113 | (24,677) | 66,417 |
| Intercompany accounts payable | 180,197 | 44,717 | 13,623 | (238,537) | - |
| Long-term debt | - | - | - | - | - |
| Other non-current liabilities | 117,828 | 9,559 | 9,274 | (68,220) | 68,441 |
| Shareholders' equity | 252,738 | 257,219 | 42,252 | (299,471) | 252,738 |
| Total liabilities and shareholders' equity | \$ 620,149 | \$ 327,090 | \$ 71,262 | \$ (630,905) | \$ 387,596 |

Condensed Consolidating Balance Sheets
December 31, 2007

| | Issuer | Guarantor Subsidiaries | Non-Guarantor Subsidiaries | Consolidating and Eliminating Entries | Consolidated |
|--|------------|---------------------------|-------------------------------|--|--------------|
| Cash and Cash Equivalents | \$ 20,802 | \$ 3,683 | \$ 25,930 | \$ (20,111) | \$ 30,304 |
| Receivables | 47,184 | 15,259 | 5,004 | (9,899) | 57,548 |
| Inventories | 67,501 | 8,221 | 5,525 | 33 | 81,280 |
| Other current assets | 18,015 | 1,334 | 1,197 | - | 20,546 |
| Total current assets | 153,502 | 28,497 | 37,656 | (29,977) | 189,678 |
| Intercompany accounts receivable | 57,071 | 175,462 | 2,138 | (234,671) | - |
| Property, plant, and equipment, net | 90,435 | 7,263 | 7,814 | - | 105,512 |
| Intangibles | 4,586 | 3,174 | - | - | 7,760 |
| Goodwill | 16,674 | 8,337 | 2,834 | - | 27,845 |
| Equity investments | 246,633 | 102,187 | 9,151 | (349,378) | 8,593 |
| Other assets | 4,908 | 1,313 | 2,531 | - | 8,752 |
| Total assets | \$ 573,809 | \$ 326,233 | \$ 62,124 | \$ (614,026) | \$ 348,140 |
| Short-term debt | \$ - | \$ - | \$ 1,504 | \$ - | \$ 1,504 |
| Current portion of long-term debt | 62,507 | - | - | - | 62,507 |
| Accounts payable | 33,424 | 19,914 | 3,417 | (13,592) | 43,163 |
| Other current liabilities | 33,219 | 299 | 2,592 | (23,523) | 12,587 |
| Total current liabilities | 129,150 | 20,213 | 7,513 | (37,115) | 119,761 |
| Intercompany accounts payable | 168,342 | 48,144 | 11,079 | (227,565) | - |
| Long-term debt | 12,925 | - | - | - | 12,925 |
| Other non-current liabilities | 91,143 | 8,782 | 11,350 | (68,070) | 43,205 |
| Shareholders' equity | 172,249 | 249,094 | 32,182 | (281,276) | 172,249 |
| Total liabilities and shareholders' equity | \$ 573,809 | \$ 326,233 | \$ 62,124 | \$ (614,026) | \$ 348,140 |

Condensed Consolidating Statements of Cash Flows

Year ended December 31, 2008

| | Issuer | Guarantor Subsidiaries | Non-Guarantor Subsidiaries | Consolidating and Eliminating Entries | Consolidated |
|--|-----------|---------------------------|-------------------------------|---|--------------|
| Net cash provided by operating activities | \$ 12,729 | \$ 12,988 | \$ 31 | \$ (178) | \$ 25,570 |
| Investing activities: | | | | | |
| Property, plant and equipment expenditures | (31,577) | (1,045) | (384) | - | (33,006) |
| Investment from (in) affiliates | - | 1,092 | (1,092) | - | - |
| Other | 547 | 363 | - | - | 910 |
| Net cash (used in) provided by investing activities | (31,030) | 410 | (1,476) | - | (32,096) |
| Financing activities: | | | | | |
| Reductions of debt obligations | (19,845) | - | - | 8,845 | (11,000) |
| Intercompany and equity transactions | 15,201 | (11,770) | (3,431) | - | - |
| Excess Tax benefit for stock-based compensation | 2,578 | - | - | - | 2,578 |
| Other | 3,473 | - | - | - | 3,473 |
| Net cash provided by (used in) financing activities | 1,407 | (11,770) | (3,431) | 8,845 | (4,949) |
| Effect of exchange rate changes on cash and cash equivalents | (2,311) | (2,243) | 2,297 | 178 | (2,079) |
| (Decrease) increase in cash and cash equivalents | (19,205) | (615) | (2,579) | 8,845 | (13,554) |
| Cash and cash equivalents, beginning of year | 20,802 | 3,683 | 25,930 | (20,111) | 30,304 |
| Cash and cash equivalents, end of year | \$ 1,597 | \$ 3,068 | \$ 23,351 | \$ (11,266) | \$ 16,750 |

Condensed Consolidating Statements of Cash Flows

Year ended December 31, 2007

| | Issuer | Guarantor Subsidiaries | Non-Guarantor Subsidiaries | Consolidating and Eliminating Entries | Consolidated |
|--|----------|---------------------------|-------------------------------|---|--------------|
| Net cash provided by operating activities | \$ 7,511 | \$ 18,090 | \$ 4,116 | \$ (304) | \$ 29,413 |
| Investing activities: | | | | | |
| Property, plant and equipment expenditures | (10,408) | (1,045) | (336) | - | (11,789) |
| Investment from (in) affiliates | - | (136) | 136 | - | - |

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| | | | | | |
|--|-----------|----------|-----------|-------------|-----------|
| Other | 318 | - | 195 | - | 513 |
| Net cash used in investing activities | (10,090) | (1,181) | (5) | - | (11,276) |
| Financing activities: | | | | | |
| Net borrowings (repayments) | 4,579 | - | 1,498 | (4,573) | 1,504 |
| Intercompany and equity transactions | 19,135 | (18,493) | (1,536) | 894 | - |
| Other | 3,845 | - | - | - | 3,845 |
| Net cash provided by (used in) financing activities | 27,559 | (18,493) | (38) | (3,679) | 5,349 |
| Effect of exchange rate changes on cash and cash equivalents | (4,178) | 2,760 | 2,301 | 304 | 1,187 |
| Increase (decrease) in cash and cash equivalents | 20,802 | 1,176 | 6,374 | (3,679) | 24,673 |
| Cash and cash equivalents, beginning of year | - | 2,507 | 19,556 | (16,432) | 5,631 |
| Cash and cash equivalents, end of year | \$ 20,802 | \$ 3,683 | \$ 25,930 | \$ (20,111) | \$ 30,304 |

Condensed Consolidating Statements of Cash Flows

Year ended December 31, 2006

| | Issuer | Guarantor Subsidiaries | Non-Guarantor Subsidiaries | Consolidating and Eliminating Entries | Consolidated |
|---|-------------|---------------------------|-------------------------------|--|--------------|
| Net cash (used in) provided by operating activities | \$ (19,366) | \$ 16,235 | \$ (1,865) | \$ (789) | \$ (5,785) |
| Investing activities: | | | | | |
| Proceeds from insurance settlement for property and equipment | 4,595 | - | - | - | 4,595 |
| Proceeds from divestitures | 830 | - | 20,435 | - | 21,265 |
| Property, plant and equipment expenditures | (12,005) | (223) | (627) | - | (12,855) |
| Investment from (in) affiliates | 11,217 | (1,284) | (9,933) | - | - |
| Other | 1,203 | - | 2 | - | 1,205 |
| Net cash provided by (used in) investing activities | 5,840 | (1,507) | 9,877 | - | 14,210 |
| Financing activities: | | | | | |
| Net borrowings (repayments) | (4,069) | (607) | 5 | (4,418) | (9,089) |
| Intercompany and equity transactions | 13,588 | (16,719) | 4,025 | (894) | - |
| Other | 356 | 30 | - | (30) | 356 |
| Net cash provided by (used in) financing activities | 9,875 | (17,296) | 4,030 | (5,342) | (8,733) |
| Effect of exchange rate changes on cash and cash equivalents | 602 | 1,394 | (2,322) | 819 | 493 |
| (Decrease) increase in cash and cash equivalents | (3,049) | (1,174) | 9,720 | (5,312) | 185 |
| Cash and cash equivalents, beginning of year | 3,049 | 3,681 | 9,836 | (11,120) | 5,446 |
| Cash and cash equivalents, end of year | \$ - | \$ 2,507 | \$ 19,556 | \$ (16,432) | \$ 5,631 |

22. Fair Value Measurements

Effective January 1, 2008, the Company adopted SFAS No. 157, "Fair Value Measurements," for all financial instruments accounted for at fair value on a recurring and non-recurring basis. In February 2008, the FASB issued FASB Staff Position No. 157-2 providing for a one year deferral of the provisions of SFAS No. 157 for non-financial assets and liabilities which are recognized or disclosed at fair value in the consolidated financial statements on a non-recurring basis. The Company is currently evaluating the impact of the provisions of SFAS No. 157 on its non-financial assets and liabilities. SFAS No.157 defines fair value, establishes a framework for measuring fair value, and expands disclosures about fair value measurements. The fair value hierarchy for disclosure of fair value measurements under SFAS No. 157 is as follows:

- LevelQuoted prices (unadjusted) in active markets for identical assets or liabilities;
1 -
- LevelInputs, other than the quoted prices in active markets, that are observable either directly or indirectly; and
2 -
- LevelUnobservable inputs that reflect the reporting entity's own assumptions.
3 -

The following table summarizes assets and liabilities measured at fair value on a recurring basis at December 31, 2008, as required by SFAS No. 157:

| (Thousands) | Level 1 | Level 2 | Level 3 |
|-------------------------|---------|----------|---------|
| Assets | | | |
| Natural gas derivatives | \$ - | \$ - | \$ - |
| Financial derivatives | - | 1,617 | - |
| Liabilities | | | |
| Natural gas derivatives | \$ - | \$ 2,234 | \$ - |
| Financial derivatives | - | 73 | - |

The Company's corporate and foreign subsidiaries use foreign currency forward exchange contracts, foreign currency option contracts, and a foreign currency swap to limit the exposure of exchange rate fluctuations on certain foreign currency receivables, payables, and other known and forecasted transactional exposures for periods consistent with the expected cash flow of the underlying transactions. The contracts generally mature within eighteen months and are designed to limit exposure to exchange rate fluctuations. The Company uses cash flow hedges to limit the exposure to changes in natural gas prices. The contracts generally mature within one to thirty-six months.

QUARTERLY FINANCIAL DATA—UNAUDITED

| (Thousands except per share data) | 2008 | | | | 2007 | | | |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter |
| Net sales | \$ 90,331 | \$ 108,476 | \$ 99,069 | \$ 102,394 | \$ 83,030 | \$ 88,428 | \$ 84,861 | \$ 94,805 |
| Gross profit from continuing operations | \$ 28,566 | \$ 37,455 | \$ 33,608 | \$ 33,756 | \$ 24,606 | \$ 28,872 | \$ 27,219 | \$ 28,154 |
| Net income from continuing operations | \$ 10,874 | \$ 9,817 | \$ 6,536 | \$ 8,337 | \$ 2,034 | \$ 4,462 | \$ 5,044 | \$ 3,913 |
| Income (loss) from discontinued operations | \$ - | \$ 3,447 | \$ (211) | \$ (443) | \$ - | \$ - | \$ (96) | \$ (70) |
| Net income | \$ 10,874 | \$ 13,264 | \$ 6,325 | \$ 7,894 | \$ 2,034 | \$ 4,462 | \$ 4,948 | \$ 3,843 |
| Common Stock Data: | | | | | | | | |
| Basic: | | | | | | | | |
| Income from continuing operations per common share | \$ 0.27 | \$ 0.24 | \$ 0.15 | \$ 0.16 | \$ 0.05 | \$ 0.11 | \$ 0.12 | \$ 0.10 |
| Income (loss) from discontinued operations per common share | \$ - | \$ 0.09 | \$ - | \$ (0.01) | \$ - | \$ - | \$ - | \$ - |
| Net income per common share | \$ 0.27 | \$ 0.33 | \$ 0.15 | \$ 0.15 | \$ 0.05 | \$ 0.11 | \$ 0.12 | \$ 0.10 |
| Diluted: | | | | | | | | |
| Income from continuing operations per common share | \$ 0.21 | \$ 0.19 | \$ 0.12 | \$ 0.15 | \$ 0.05 | \$ 0.09 | \$ 0.10 | \$ 0.08 |
| Income (loss) from discontinued operations per common share | \$ - | \$ 0.06 | \$ - | \$ (0.01) | \$ - | \$ - | \$ - | \$ - |
| Net income per common share | \$ 0.21 | \$ 0.25 | \$ 0.12 | \$ 0.14 | \$ 0.05 | \$ 0.09 | \$ 0.10 | \$ 0.08 |
| Average common shares outstanding | | | | | | | | |
| Basic | 40,240 | 40,558 | 44,625 | 53,247 | 40,225 | 40,291 | 40,357 | 39,959 |
| Diluted | 51,756 | 52,025 | 53,798 | 55,662 | 42,661 | 47,745 | 50,358 | 51,102 |

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

Not Applicable.

Item 9A. Controls and Procedures:

Evaluation of Disclosure Controls and Procedures

The Company maintains controls and procedures designed to ensure that it is able to collect the information it is required to disclose in the reports it files with the SEC, and to process, summarize, and disclose this information within the time periods specified in the rules of the SEC. Our management, under the supervision and with the participation of the Company's Chief Executive Officer and Chief Financial Officer, has evaluated the effectiveness of the design and operation of the Company's "disclosure controls and procedures", as such term is defined in Rule 13a-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), as of the end of the period covered by this annual report.

Based on this evaluation, the Company's management has concluded that the Company's disclosure controls and procedures were effective as of the end of the period covered by this annual report.

Management's Annual Report on Internal Control over Financial Reporting

Management's Annual Report on Internal Control over Financial Reporting is contained in "Item 8. Financial Statements and Supplementary Data – Report of Management - Responsibility for Preparation of the Financial Statements and Establishing and Maintaining Adequate Internal Control Over Financial Reporting."

Attestation Report of the Independent Registered Public Accounting Firm

The attestation report of the Independent Registered Public Accounting Firm is contained in "Item 8. Financial Statements and Supplementary Data Report of Independent Registered Public Accounting Firm."

Changes in Internal Control

There have been no changes to our internal control over financial reporting that occurred that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information:

None.

PART III

Item 10. Directors, Executive Officers, and Corporate Governance of the Registrant:

Information concerning the directors and executive officers of the Corporation required by this item is incorporated by reference to the material appearing under the headings "Board of Directors and Committees of the Board," "Election of Directors," "Corporate Governance" and "Section 16(a) Beneficial Ownership Reporting Compliance" in the Company's Proxy Statement for the 2009 Annual Meeting of its Shareholders.

The Company adopted Amended and Restated By-laws through January 7, 2008 which are set forth in Exhibit 3.2 hereto. The Company's Code of Business Conduct and Ethics was revised in the last quarter of 2008 and is set forth in Exhibit 14.1 hereto.

Item 11. Executive Compensation:

Information required by this item is incorporated by reference to the material appearing under the headings "Executive and Director Compensation" in the Company's Proxy Statement for the 2009 Annual Meeting of its Shareholders. The information contained in the "Compensation Committee Report" is specifically not incorporated herein by reference.

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Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Shareholder Matters:

The following table sets forth information as of December 31, 2008 concerning common stock issuable under the Company's equity compensation plans.

Equity Compensation Plan Information

| Plan category | Number of securities to be issued upon exercise of outstanding options, warrants and rights (a) | Weighted-average exercise price of outstanding options, warrants and rights (b) | Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c) |
|--|--|--|--|
| Equity compensation plans approved by security holders | 1,361,081 | \$ 7.35 | 1,978,857 |
| Equity compensation plans not approved by security holders | - | - | 49,490(1) |
| Total | 1,361,081 | \$ 7.35 | 2,028,347 |

(1) On December 31, 2008 there were 49,490 shares available for issuance under the Company's 1997 Directors' Fee Plan, as last amended in 2005. The Plan provides non-employee directors of the Company with payment alternatives for retainer fees by being able to elect to receive Common Stock of the Company instead of cash for such fees. Under the plan, directors have the alternative to elect their retainer fees in a current payment of shares of Common Stock of the Company, or to defer payment of such fees into a Common Stock account. Shares which are deferred are credited to a deferred stock compensation other liability account maintained by the Company. On each date when director fees are otherwise payable to a director who has made a stock deferral election, his or her stock deferral account will be credited with a number of shares equal to the cash amount of the director's fees payable divided by the fair market value of one share of the Common Stock on the date on which the fees are payable. Dividends or other distributions payable on Common Stock are similarly credited to the deferred stock account of a director on the date when such dividends or distributions are payable. The deferred stock compensation accounts are payable to the directors in accordance with their stock deferral elections and are typically paid either in a lump sum or in annual installments after the retirement or other termination of service of the director from the Company's Board of Directors.

The additional information required by this item is incorporated by reference to the material appearing under the heading "Security Ownership of Management and Certain Beneficial Owners" in the Company's Proxy Statement for the 2009 Annual Meeting of its Shareholders.

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

Information required by this item is incorporated by reference to the material appearing under the headings “Election of Directors” and “Corporate Governance” in the Company's Proxy Statement for the 2009 Annual Meeting of its Shareholders.

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Item 14. Principal Accounting Fees and Services:

Information required by this item is incorporated by reference to the material appearing under the heading “Independent Auditors – Certain Fees” in the Company’s Proxy Statement for the 2009 Annual Meeting of its Shareholders.

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PART IV

Item 15. Exhibits and Financial Statement Schedules:

A. Financial Statements and Reports of Independent Registered Public Accounting Firm (see Part II, Item 8 of this Form 10-K).

The following information is filed as part of this Form 10-K:

| | Page |
|--|------|
| Report of Management | 60 |
| Internal Controls– Report of Independent Registered Public Accounting Firm | 62 |
| Financial Statements – Report of Independent Registered Public Accounting Firms | 63 |
| Consolidated Statements of Income (Loss) and Comprehensive Income for the Years Ended December 31, 2008, 2007 and 2006 | 65 |
| Consolidated Balance Sheets as of December 31, 2008 and 2007 | 66 |
| Consolidated Statements of Cash Flows for the Years Ended December 31, 2008, 2007 and 2006 | 67 |
| Consolidated Statements of Shareholders' Equity for Years Ended December 31, 2008, 2007 and 2006 | 68 |
| Notes to the Consolidated Financial Statements | 69 |

B. Financial Statements Schedule for the years ended December 31, 2008, 2007 and 2006.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Shareholders of
Calgon Carbon Corporation
Pittsburgh, Pennsylvania

We have audited the consolidated financial statements of Calgon Carbon Corporation and subsidiaries (the "Company") as of December 31, 2008 and 2007, and for each of the three years in the period ended December 31, 2008, and the Company's internal control over financial reporting as of December 31, 2008, and have issued our reports thereon dated March 13, 2009 (which report on the financial statements expresses an unqualified opinion and includes an explanatory paragraph regarding the Company's adoption of new accounting standards); such consolidated financial statements and reports are included elsewhere in this Form 10-K. Our audits also included the consolidated financial statement schedule of the Company listed in Item 15. This consolidated financial statement schedule is the responsibility of the Company's management. Our responsibility is to express an opinion based on our audits. In our opinion, such consolidated financial statement schedule, when considered in relation to the basic consolidated financial statements taken as a whole, presents fairly, in all material respects, the information set forth therein.

Deloitte & Touche LLP
Pittsburgh, Pennsylvania
March 13, 2009

The following should be read in conjunction with the previously referenced financial statements:

Schedule II
Valuation and Qualifying Accounts

| Description | Balance at Beginning of Year | Additions Charged to Costs and Expenses | Deductions Returns and Write-Offs | Balance at End of Year |
|---------------------------------|------------------------------------|--|--|------------------------------|
| Year ended December 31, 2008 | | | | |
| Allowance for doubtful accounts | \$ 2,834 | \$ 199 | \$ (1,437) | \$ 1,596 |
| Year ended December 31, 2007 | | | | |
| Allowance for doubtful accounts | 1,981 | 1,239 | (386) | 2,834 |
| Year ended December 31, 2006 | | | | |
| Allowance for doubtful accounts | 2,172 | 902 | (1,093) | 1,981 |
| | | | | |
| Description | Balance at Beginning of Year | Additions Charged to Costs and Expenses | Reductions | Balance at End of Year |
| Year ended December 31, 2008 | | | | |
| Income tax valuation allowance | \$ 6,218 | \$ 3,943 | \$ (2,184) | \$ 7,977 |
| Year ended December 31, 2007 | | | | |
| Income tax valuation allowance | 5,742 | 2,441 | (1,965) | 6,218 |
| Year ended December 31, 2006 | | | | |
| Income tax valuation allowance | 3,382 | 2,360 | - | 5,742 |

C. Exhibits

| | Page |
|--|----------------|
| 3.1 Amended Certificate of Incorporation | (a) |
| 3.2 Amended and Restated By-laws of the Company | Filed herewith |
| 4.1 Amended Rights Agreement, dated as of January 27, 2005 | (b) |
| 4.2 Indenture, dated August 18, 2006 | (c) |
| 4.3 Registration Rights Agreement, dated August 18, 2006 | (d) |
| 10.1* Calgon Carbon Corporation 2008 Equity Incentive Plan | (e) |
| 10.4* 1997 Directors' Fee Plan | (f) |
| 10.5* Employment agreement between Calgon Carbon Corporation and executive officers. The form of employment agreement has been entered into with the following executive officer, C. H. S. (Kees) Majoor | (g) |
| 10.6 Calgon Carbon Corporation Senior Credit Facility | (h) |
| 10.7 Amendment No. 1 to Calgon Carbon Corporation Senior Credit Facility | (i) |
| 10.8 Purchase Agreement among Waterlink, Inc. and Barnebey Sutcliffe Corporation and Calgon Carbon Corporation | (j) |
| 10.9* Employment agreement between Calgon Carbon Corporation and executive officers. The form of employment agreement has been entered into with the following executive officers, Leroy M. Ball, Gail A. Geroni, Robert P. O'Brien, and Dennis M. Sheedy | (k) |
| 10.10* Employment agreement between Calgon Carbon Corporation and John S. Stanik | (l) |
| 10.11 First Amendment to Credit Agreement, as amended on February 5, 2007 | (m) |
| 10.12 Second Amendment to Credit Agreement, as amended on May 29, 2007 | (n) |
| 10.13 Third Amendment to Credit Agreement, as amended on August 14, 2008 | (o) |
| 10.14 Fourth Amendment to Credit Agreement, as amended on September 30, 2008 | (p) |
| 14.1 Code of Business Conduct and Ethics | Filed herewith |
| 21.0 The wholly owned subsidiaries of the Company at December 31, 2008 are Chemviron Carbon GmbH, a German corporation; Calgon Carbon Canada, Inc., a Canadian corporation; Chemviron Carbon Ltd., a United Kingdom corporation; Calgon Carbon Investments, Inc., a Delaware corporation; Solarchem Environmental Systems, Inc., a Nevada corporation; Charcoal Cloth (International) Limited, a United Kingdom corporation; Charcoal Cloth Limited, a United Kingdom corporation; Waterlink (UK) Holdings Ltd., a United Kingdom corporation; Sutcliffe Croftshaw Ltd., a United Kingdom corporation; Sutcliffe Speakman Ltd., a United Kingdom corporation; Sutcliffe Speakman Carbons Ltd., a United Kingdom corporation; Lakeland Processing Ltd., a United Kingdom corporation; Sutcliffe Speakmanco 5 Ltd., a United Kingdom corporation; Advanced Separation Technologies Incorporated, a Florida corporation; Calgon Carbon (Tianjin) Co., Ltd., a Chinese corporation; Datong Carbon Corporation, a Chinese corporation; Calgon Carbon Asia PTE Ltd., a Singapore corporation; BSC Columbus, LLC, a Delaware limited liability company; CCC Columbus, LLC, a Delaware limited liability company; and CCC Distribution, a Delaware limited liability company. In addition, the Company owns 49% of Calgon Mitsubishi Chemical Corporation, a Japanese corporation and 20% of Calgon Carbon (Thailand) Company Ltd., a Thailand corporation | Filed herewith |

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| | | |
|------|--|----------------|
| 23.1 | Consent of Independent Registered Public Accounting Firm | Filed herewith |
| 31.1 | Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 | Filed herewith |
| 31.2 | Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 | Filed herewith |
| 32.1 | Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 | Filed herewith |
| 32.2 | Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 | Filed herewith |

Note: The Registrant hereby undertakes to furnish, upon request of the Commission, copies of all instruments defining the rights of holders of long-term debt of the Registrant and its consolidated subsidiaries. The total amount of securities authorized thereunder does not exceed 10% of the total assets of the Registrant and its subsidiaries on a consolidated basis.

- (a) Incorporated herein by reference to Exhibit 3.1 to the Company's report on Form 10-K filed for the fiscal year ended December 31, 1990.
- (b) Incorporated herein by reference to Exhibit 4.1 of the Company's report on Form 8-K dated January 28, 2005.
- (c) Incorporated herein by reference to Exhibit 4.1 to the Company's report on Form 8-K dated August 18, 2006.
- (d) Incorporated herein by reference to Exhibit 4.2 to the Company's report on Form 8-K dated August 18, 2006.
- (e) Incorporated herein by reference to Exhibit A to the Company's definitive proxy statement filed on April 3, 2008.
- (f) Incorporated herein by reference to Exhibit 10.4 to the Company's report on Form 10-K filed for the fiscal year ended December 31, 2005.
- (g) Incorporated herein by reference to Exhibit 10.2 to the Company's report on Form 10-Q filed for the fiscal quarter ended March 31, 2005
- (h) Incorporated herein by reference to Exhibit 10.1 to the Company's report on Form 8-K dated January 31, 2006.
- (i) Incorporated herein by reference to Exhibit 10.7 to the Company's report on Form 10-K filed for the fiscal year ended December 31, 2005.
- (j) Incorporated herein by reference to Exhibit 10.9 to the Company's report on Form 10-K filed for the fiscal year ended December 31, 2003.
- (k) Incorporated herein by reference to Exhibit 10.9 to the Company's report on Form 10-K filed for the fiscal year ended December 31, 2006.
- (l) Incorporated herein by reference to Exhibit 10.9 to the Company's report on Form 10-K filed for the fiscal year ended December 31, 2006.
- (m) Incorporated herein by reference to Exhibit 10.9 to the Company's report on Form 10-K filed for the fiscal year ended December 31, 2006.
- (n) Incorporated herein by reference to Exhibit 99.1 to the Company's report on Form 10-Q filed for the fiscal quarter ended March 31, 2007.
- (o) Incorporated herein by reference to Exhibit 10.1 to the Company's report on Form 8-K dated August 14, 2008.
- (p) Incorporated herein by reference to Exhibit 10.6 to the Company's report on Form 10-Q filed for the fiscal quarter ended September 30, 2008.

* Management contract or compensatory plan, contract or arrangement required to be filed by Item 601(b)(10)(iii) of Regulation S-K.

Signatures

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Calgon Carbon Corporation
By /s/ JOHN S.
STANIK
John S. Stanik
Chairman, President and Chief
Executive Officer
March 13, 2009

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

| Signature | Title | Date |
|--|---|----------------|
| /s/ JOHN S. STANIK John S. Stanik | Chairman, President and Chief Executive Officer | March 13, 2009 |
| /s/ LEROY M. BALL Leroy M. Ball | Chief Financial Officer (and Principal Accounting Officer) | March 13, 2009 |
| /s/ ROBERT W. CRUICKSHANK Robert W. Cruickshank | Director | March 13, 2009 |
| /s/ RANDALL S. DEARTH Randall S. Dearth | Director | March 13, 2009 |
| /s/ WILLIAM J. LYONS William J. Lyons | Director | March 13, 2009 |
| /s/ WILLIAM R. NEWLIN William R. Newlin | Director | March 13, 2009 |
| /s/ JULIE S. ROBERTS Julie S. Roberts | Director | March 13, 2009 |
| /s/ TIMOTHY G. RUPERT Timothy G. Rupert | Director | March 13, 2009 |
| /s/ SETH E. SCHOFIELD Seth E. Schofield | Director | March 13, 2009 |
| /s/ ROBERT L. YOHE Robert L. Yohe | Director | March 13, 2009 |

