

FERRO CORP  
Form 10-Q  
October 27, 2014  
Table of Contents

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

(Mark One)

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

For the quarterly period ended September 30, 2014

or

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

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File Number 1-584

FERRO CORPORATION

(Exact name of registrant as specified in its charter)

|   |                                      |
|---|--------------------------------------|
| Ohio  | 34-0217820                           |
| (State or other jurisdiction of<br>incorporation or organization) | (I.R.S. Employer Identification No.) |
| 6060 Parkland Boulevard   | 44124                                |
| Suite 250   | (Zip Code)                           |
| Mayfield Heights, OH  |                                      |
| (Address of principal executive offices)                          |                                      |
| 216-875-5600  |                                      |
| (Registrant's telephone number, including area code)              |                                      |

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

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).

YES NO

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Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of “large accelerated filer,” “accelerated filer” and “smaller reporting company” in Rule 12b-2 of the Exchange Act. (Check one):

|                         |   |                           |
|-------------------------|---|---------------------------|
| Large accelerated filer |   | Accelerated filer         |
| Non-accelerated filer   | (Do not check if a smaller reporting company) | Smaller reporting company |

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). YES NO

At September 30, 2014, there were 86,985,899 shares of Ferro Common Stock, par value \$1.00, outstanding.

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Table of Contents

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Table of Contents

TABLE OF CONTENTS

|  | Page |
|--|------|
| <b><u>PART I</u></b>   |      |
| <u>Item 1. Financial Statements (Unaudited)</u>  | 3    |
| <u>Item 2. Management’s Discussion and Analysis of Financial Condition and Results of Operations</u> | 22   |
| <u>Item 3. Quantitative and Qualitative Disclosures about Market Risk</u>                            | 42   |
| <u>Item 4. Controls and Procedures</u>   | 43   |
| <b><u>PART II</u></b>  |      |
| <u>Item 1. Legal Proceedings</u>   | 44   |
| <u>Item 1A. Risk Factors</u>   | 44   |
| <u>Item 2. Unregistered Sales of Equity Securities and Use of Proceeds</u>                           | 44   |
| <u>Item 3. Defaults Upon Senior Securities</u>   | 44   |
| <u>Item 4. Mine Safety Disclosures</u>   | 44   |
| <u>Item 5. Other Information</u>   | 44   |
| <u>Item 6. Exhibits</u>  | 44   |
| Exhibit 10.1   |      |
| Exhibit 31.1   |      |
| Exhibit 31.2   |      |
| Exhibit 32.1   |      |
| Exhibit 32.2   |      |
| EX-101 Instance Document   |      |
| EX-101 Schema Document   |      |
| EX-101 Calculation Linkbase Document   |      |
| EX-101 Labels Linkbase Document  |      |
| EX-101 Presentation Linkbase Document  |      |
| EX-101 Definition Linkbase Document  |      |

Table of Contents

## PART I — FINANCIAL INFORMATION

## Item 1. Financial Statements (Unaudited)

## Ferro Corporation and Subsidiaries

## Condensed Consolidated Statements of Operations

|   | Three Months Ended<br>September 30,              |            | Nine Months Ended<br>September 30, |            |
|---|--|------------|------------------------------------|------------|
|   | 2014   | 2013       | 2014                               | 2013       |
|   | (Dollars in thousands, except per share amounts) |            |                                    |            |
| Net sales   | \$ 275,754                                       | \$ 298,083 | \$ 850,698                         | \$ 912,738 |
| Cost of sales   | 202,950  | 225,980    | 624,487                            | 701,740    |
| Gross profit  | 72,804   | 72,103     | 226,211                            | 210,998    |
| Selling, general and administrative expenses  | 51,716   | 52,589     | 152,345                            | 165,471    |
| Restructuring and impairment charges  | 1,521  | 3,562      | 7,829                              | 26,086     |
| Other expense (income):   |  |            |                                    |            |
| Interest expense  | 3,635  | 5,039      | 12,819                             | 15,343     |
| Interest earned   | (23)   | (48)       | (52)                               | (171)      |
| Loss on extinguishment of debt  | 14,352   | —          | 14,352                             | —          |
| Foreign currency (gains) losses, net  | (330)  | 1,305      | 1,043                              | 4,086      |
| Miscellaneous (income) expense, net   | (180)  | (470)      | 4,038                              | (10,178)   |
| Income before income taxes  | 2,113  | 10,126     | 33,837                             | 10,361     |
| Income tax expense  | 4,680  | 312        | 12,347                             | 3,559      |
| (Loss) income from continuing operations  | (2,567)  | 9,814      | 21,490                             | 6,802      |
| Income from discontinued operations, net of taxes                                   | 50,124   | 3,230      | 53,188                             | 4,780      |
| Net income  | 47,557   | 13,044     | 74,678                             | 11,582     |
| Less: Net income attributable to noncontrolling interests                           | 92   | 392        | 49                                 | 177        |
| Net income attributable to Ferro Corporation common shareholders                    | \$ 47,465  | \$ 12,652  | \$ 74,629                          | \$ 11,405  |
| (Loss) earnings per share attributable to Ferro Corporation<br>common shareholders: |  |            |                                    |            |
| Basic (loss) earnings:  |  |            |                                    |            |
| Continuing operations   | \$ (0.03)  | \$ 0.11    | \$ 0.25                            | \$ 0.08    |
| Discontinued operations   | 0.58   | 0.04       | 0.61                               | 0.06       |
|   | \$ 0.55  | \$ 0.15    | \$ 0.86                            | \$ 0.14    |
| Diluted (loss) earnings:  |  |            |                                    |            |
| Continuing operations   | \$ (0.03)  | \$ 0.11    | \$ 0.24                            | \$ 0.08    |

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|                         |         |         |         |         |
|-------------------------|---------|---------|---------|---------|
| Discontinued operations | 0.58    | 0.04    | 0.60    | 0.05    |
|                         | \$ 0.55 | \$ 0.15 | \$ 0.84 | \$ 0.13 |

See accompanying notes to condensed consolidated financial statements.

Table of Contents

## Ferro Corporation and Subsidiaries

## Condensed Consolidated Statements of Comprehensive Income

|  | Three Months Ended<br>September 30, |           | Nine Months Ended<br>September 30, |           |
|--|-------------------------------------|-----------|------------------------------------|-----------|
|  | 2014                                | 2013      | 2014                               | 2013      |
|  | (Dollars in thousands)              |           |                                    |           |
| Net income   | \$ 47,557                           | \$ 13,044 | \$ 74,678                          | \$ 11,582 |
| Other comprehensive (loss) income, net of tax:                             |                                     |           |                                    |           |
| Foreign currency translation (loss) gain                                   | (12,242)                            | 4,226     | (12,732)                           | (3,820)   |
| Postretirement benefit liabilities loss                                    | (44)                                | (34)      | (94)                               | (171)     |
| Other comprehensive (loss) income, net of tax                              | (12,286)                            | 4,192     | (12,826)                           | (3,991)   |
| Total comprehensive income   | 35,271                              | 17,236    | 61,852                             | 7,591     |
| Less: Comprehensive income (loss) attributable to noncontrolling interests | 159                                 | 415       | (391)                              | 323       |
| Comprehensive income attributable to Ferro Corporation                     | \$ 35,112                           | \$ 16,821 | \$ 62,243                          | \$ 7,268  |

See accompanying notes to condensed consolidated financial statements.



Table of Contents

## Ferro Corporation and Subsidiaries

## Condensed Consolidated Balance Sheets

|   | September<br>30,<br>2014 | December<br>31,<br>2013 |
|---|--------------------------|-------------------------|
|   | (Dollars in thousands)   |                         |
| <b>ASSETS</b>                                       |                          |                         |
| Current assets                                      |                          |                         |
| Cash and cash equivalents                           | \$ 95,286                | \$ 28,328               |
| Accounts receivable, net                            | 229,942                  | 238,278                 |
| Inventories   | 157,764                  | 144,780                 |
| Deferred income taxes                               | 6,775                    | 6,511                   |
| Other receivables                                   | 20,600                   | 19,963                  |
| Other current assets                                | 22,527                   | 16,214                  |
| Current assets held-for-sale                        | 86,480                   | 101,315                 |
| Total current assets                                | 619,374                  | 555,389                 |
| Other assets  |                          |                         |
| Property, plant and equipment, net                  | 201,820                  | 225,255                 |
| Goodwill  | 62,443                   | 63,473                  |
| Amortizable intangible assets, net                  | 17,710                   | 13,027                  |
| Deferred income taxes                               | 17,793                   | 19,283                  |
| Other non-current assets                            | 61,139                   | 59,663                  |
| Non-current assets held-for-sale                    | 54,530                   | 72,102                  |
| Total assets  | \$ 1,034,809             | \$ 1,008,192            |
| <b>LIABILITIES AND EQUITY</b>                       |                          |                         |
| Current liabilities                                 |                          |                         |
| Loans payable and current portion of long-term debt | \$ 8,402                 | \$ 44,729               |
| Accounts payable                                    | 134,937                  | 120,641                 |
| Accrued payrolls                                    | 34,313                   | 42,320                  |
| Accrued expenses and other current liabilities      | 66,504                   | 66,026                  |
| Current liabilities held-for-sale                   | 30,303                   | 40,015                  |
| Total current liabilities                           | 274,459                  | 313,731                 |
| Other liabilities                                   |                          |                         |
| Long-term debt, less current portion                | 300,772                  | 267,469                 |
| Postretirement and pension liabilities              | 85,174                   | 119,600                 |
| Other non-current liabilities                       | 30,393                   | 30,656                  |
| Non-current liabilities held-for-sale               | 2,863                    | 2,893                   |
| Total liabilities                                   | 693,661                  | 734,349                 |
| Equity  |                          |                         |
| Ferro Corporation shareholders' equity:             | 93,436                   | 93,436                  |

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Common stock, par value \$1 per share; 300.0 million shares authorized; 93.4 million shares issued; 86.9 million and 86.7 million shares outstanding at September 30, 2014, and December 31, 2013, respectively

|   |              |              |
|---|--------------|--------------|
| Paid-in capital                               | 316,133      | 318,055      |
| Retained earnings (deficit)                   | 59,965       | (14,664)     |
| Accumulated other comprehensive (loss) income | (3,893)      | 8,493        |
| Common shares in treasury, at cost            | (136,221)    | (143,802)    |
| Total Ferro Corporation shareholders' equity  | 329,420      | 261,518      |
| Noncontrolling interests                      | 11,728       | 12,325       |
| Total equity                                  | 341,148      | 273,843      |
| Total liabilities and equity                  | \$ 1,034,809 | \$ 1,008,192 |

See accompanying notes to condensed consolidated financial statements.

Table of Contents

## Ferro Corporation and Subsidiaries

## Condensed Consolidated Statements of Equity

|   | Ferro Corporation Shareholders<br>Common Shares<br>in Treasury |              | Common<br>Stock | Paid-in<br>Capital | Retained<br>Earnings<br>(Deficit) | Accumulated<br>Other<br>Comprehensive<br>Income<br>(Loss) | Non-<br>controlling<br>Interests | Total<br>Equity |
|---|--|--------------|-----------------|--------------------|-----------------------------------|---|----------------------------------|-----------------|
|   | Shares   | Amount       |                 |                    |                                   |   |                                  |                 |
|   | (In thousands)   |              |                 |                    |                                   |   |                                  |                 |
| Balances at<br>December 31,<br>2012             | 6,962  | \$ (151,605) | \$ 93,436       | \$ 321,652         | \$ (86,606)                       | \$ 16,650   | \$ 13,147                        | \$ 206,674      |
| Net income                                      | —  | —            | —               | —                  | 11,405                            | —   | 177                              | 11,582          |
| Other<br>comprehensive<br>(loss) income         | —  | —            | —               | —                  | —                                 | (4,137)   | 146                              | (3,991)         |
| Stock-based<br>compensation<br>transactions     | (129)  | 3,997        | —               | (1,436)            | —                                 | —   | —                                | 2,561           |
| Distributions to<br>noncontrolling<br>interests | —  | —            | —               | —                  | —                                 | —   | (125)                            | (125)           |
| Balances at<br>September 30,<br>2013            | 6,833  | (147,608)    | 93,436          | 320,216            | (75,201)                          | 12,513  | 13,345                           | 216,701         |
| Balances at<br>December 31,<br>2013             | 6,730  | (143,802)    | 93,436          | 318,055            | (14,664)                          | 8,493   | 12,325                           | 273,843         |
| Net income                                      | —  | —            | —               | —                  | 74,629                            | —   | 49                               | 74,678          |
| Other<br>comprehensive<br>loss                  | —  | —            | —               | —                  | —                                 | (12,386)  | (440)                            | (12,826)        |
| Stock-based<br>compensation<br>transactions     | —  | 7,581        | —               | (1,922)            | —                                 | —   | —                                | 5,659           |
| Distributions to<br>noncontrolling<br>interests | —  | —            | —               | —                  | —                                 | —   | (206)                            | (206)           |
| Balances at<br>September 30,                    | 6,730  | \$ (136,221) | \$ 93,436       | \$ 316,133         | \$ 59,965                         | \$ (3,893)  | \$ 11,728                        | \$ 341,148      |

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See accompanying notes to condensed consolidated financial statements.

6

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Table of Contents

## Ferro Corporation and Subsidiaries

## Condensed Consolidated Statements of Cash Flows

|  | Nine Months Ended<br>September 30, |           |
|--|------------------------------------|-----------|
|  | 2014                               | 2013      |
|  | (Dollars in thousands)             |           |
| Cash flows from operating activities   |                                    |           |
| Net cash provided by operating activities  | \$ 41,900                          | \$ 3,003  |
| Cash flows from investing activities   |                                    |           |
| Capital expenditures for property, plant and equipment and other long lived assets | (40,996)                           | (21,187)  |
| Proceeds from sale of businesses, net  | 88,337                             | 16,912    |
| Proceeds from sale of assets   | 5,911                              | 16,034    |
| Acquisition of Turkey commercial assets  | (6,726)                            | —         |
| Other investing activities   | —                                  | 1,119     |
| Net cash provided by investing activities  | 46,526                             | 12,878    |
| Cash flows from financing activities   |                                    |           |
| Net (repayments) borrowings under loans payable (1)                                | (42,529)                           | 9,223     |
| Proceeds from revolving credit facility  | 377,844                            | 368,317   |
| Proceeds from term loan facility   | 300,000                            | —         |
| Principal payments on revolving credit facility                                    | (387,049)                          | (351,404) |
| Extinguishment of convertible senior notes   | —                                  | (35,066)  |
| Repayment of 7.875% Senior Notes   | (260,451)                          | —         |
| Payment of debt issuance costs   | (6,834)                            | —         |
| Other financing activities   | 54                                 | (734)     |
| Net cash used for financing activities   | (18,965)                           | (9,664)   |
| Effect of exchange rate changes on cash and cash equivalents                       | (2,503)                            | 60        |
| Increase in cash and cash equivalents  | 66,958                             | 6,277     |
| Cash and cash equivalents at beginning of period                                   | 28,328                             | 29,576    |
| Cash and cash equivalents at end of period   | \$ 95,286                          | \$ 35,853 |
| Cash paid during the period for:   |                                    |           |
| Interest   | \$ 23,863                          | \$ 25,484 |
| Income taxes   | \$ 4,329                           | \$ 2,905  |

(1) Includes cash flows related to our domestic accounts receivable program, international accounts receivable sales programs as well as loans payable to banks.

See accompanying notes to condensed consolidated financial statements.



Table of Contents

Ferro Corporation and Subsidiaries

Notes to Condensed Consolidated Financial Statements

1. Basis of Presentation

The accompanying unaudited condensed consolidated financial statements of Ferro Corporation (“Ferro,” “we,” “us” or “the Company”) have been prepared in accordance with accounting principles generally accepted in the United States of America (“U.S. GAAP”) for interim financial information, the instructions to Form 10-Q, and Article 10 of Regulation S-X. These statements reflect all normal and recurring adjustments which are, in the opinion of management, necessary to present fairly the financial position, results of operations and cash flows for the periods presented. The preparation of financial statements in conformity with U.S. GAAP requires us to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. These interim condensed consolidated financial statements should be read in conjunction with the consolidated financial statements and related notes included in our Annual Report on Form 10-K for the year ended December 31, 2013.

The Company owns 51% of an operating affiliate in Venezuela that is accounted for as a fully consolidated subsidiary of Ferro and had \$7.8 million of assets and \$3.2 million of liabilities that are included in the condensed consolidated balance sheets at September 30, 2014. In the first quarter of 2014, the Venezuelan government expanded and introduced alternative market mechanisms for monetary exchange between the local currency, the Bolivar, and the United States Dollar. As a result of changes in the political and economic environment in the country, we began to remeasure the monetary assets and liabilities of the entity utilizing the most relevant exchange mechanism available. The impact of the remeasurement in the first quarter of 2014, prior to adjustment for losses allocated to our noncontrolling interest partner was a loss of \$1.6 million, which is recorded within foreign currency (gains) losses, net within our condensed consolidated statement of operations for the nine months ended September 30, 2014. In the event that other markets become more relevant in future periods, additional losses or gains on remeasurement could occur.

During the second quarter of 2014, substantially all of the assets and liabilities of the Specialty Plastics and Polymer Additives reportable segments were classified as held-for-sale in the accompanying condensed consolidated balance sheets. As further discussed in Note 4, the Specialty Plastics sale closed on July 1, 2014. Therefore, the Specialty Plastics and Polymer Additives operating results, net of tax, and assets and liabilities have been classified as discontinued operations in the accompanying condensed consolidated statements of operations, balance sheets and these notes for all periods presented. Refer to Note 12 for further details.

Operating results for the three and nine months ended September 30, 2014, are not necessarily indicative of the results expected in subsequent quarters or for the full year ending December 31, 2014.

## 2. Recent Accounting Pronouncements

### Accounting Standards Adopted in the period ended September 30, 2014

On January 1, 2014, we adopted Financial Accounting Standards Board (“FASB”) Accounting Standards Update (“ASU”) 2013-05, Parent’s Accounting for the Cumulative Translation Adjustments upon Derecognition of Certain Subsidiaries or Groups of Assets within a Foreign Entity or of an Investments in a Foreign Entity, which is codified in ASC Topic 830, Foreign Currency Matters. This pronouncement clarifies the application of Subtopic 810-10, Consolidation—Overall, and Subtopic 830-30, Foreign Currency Matters—Translation of Financial Statements, related to the release of the cumulative translation adjustment into net income when a parent either sells a part or all of its investment in a foreign entity or no longer holds a controlling financial interest in a foreign entity, and the treatment of business combinations achieved in stages involving a foreign entity. The adoption of this pronouncement did not have a material effect on our condensed consolidated financial statements.

### New Accounting Standards

In April 2014, the FASB issued ASU 2014-08, Reporting Discontinued Operations and Disclosures of Disposals of Components of an Entity, which is codified in ASC Topic 205, Presentation of Financial Statements, and ASC Topic 360, Property, Plant, and Equipment. This pronouncement changes the definition of a discontinued operation to include only those disposals of components of an entity that represent a strategic shift that has (or will have) a major effect on an entity’s operations and financial results, and



Table of Contents

changes the criteria and enhances disclosures for reporting discontinued operations. The pronouncement is to be applied prospectively, and is effective for our fiscal year that begins January 1, 2015. We do not expect that the adoption of this pronouncement will have a material effect on our consolidated financial statements.

In May 2014, the Financial Accounting Standards Board (the "FASB") issued Accounting Standards Update ("ASU") 2014-09, "Revenue from Contracts with Customers: Topic 606". This ASU replaces nearly all existing U.S. GAAP guidance on revenue recognition. The standard prescribes a five-step model for recognizing revenue, the application of which will require significant judgment. This standard is effective for fiscal years beginning after December 15, 2016, and for interim periods within those fiscal years. The Company is in the process of assessing the impact the adoption of this ASU will have on our consolidated financial statements.

In June 2014, the FASB issued ASU No. 2014-12, "Compensation-Stock Compensation (Topic 718): Accounting for Share-Based Payments When the Terms of an Award Provide That a Performance Target Could Be Achieved after the Requisite Service Period." ASU 2014-12 requires a reporting entity to treat a performance target that affects vesting and that could be achieved after the requisite service period as a performance condition. It is effective for annual periods, and interim periods within those annual periods, beginning after December 15, 2015. Early adoption is permitted. ASU 2014-12 may be adopted either prospectively for share-based payment awards granted or modified on or after the effective date, or retrospectively, using a modified retrospective approach. The modified retrospective approach would apply to share-based payment awards outstanding as of the beginning of the earliest annual period presented in the financial statements on adoption, and to all new or modified awards thereafter. The Company is in the process of determining the impact of this ASU on our consolidated financial statements.

## 3. Inventories

|                   | September<br>30,<br>2014 | December<br>31,<br>2013 |
|-------------------|--------------------------|-------------------------|
|                   | (Dollars in thousands)   |                         |
| Raw materials     | \$ 44,990                | \$ 45,542               |
| Work in process   | 32,960                   | 29,436                  |
| Finished goods    | 79,814                   | 69,802                  |
| Total inventories | \$ 157,764               | \$ 144,780              |

In the production of some of our products, we use precious metals, some of which we obtain from financial institutions under consignment agreements with terms of one year or less. The financial institutions retain ownership of the precious metals and charge us fees based on the amounts we consign. These fees were \$0.2 million and \$0.7 million for the three months ended September 30, 2014 and 2013, respectively, and were \$0.7 million and \$2.5 million for the nine months ended September 30, 2014 and 2013, respectively. We had on hand precious metals owned by participants in our precious metals consignment program of \$25.3 million at September 30, 2014, and \$30.8 million at December 31, 2013, measured at fair value based on market prices for identical assets and net of credits.

#### 4. Property, Plant and Equipment

Property, plant and equipment is reported net of accumulated depreciation of \$415.1 million at September 30, 2014, and \$408.5 million at December 31, 2013. The December 31, 2013, amount has been adjusted to appropriately reflect all balances that are classified as held-for-sale as of September 30, 2014. Unpaid capital expenditure liabilities, which are non-cash investing activities, were \$7.9 million at September 30, 2014, and \$6.6 million at September 30, 2013.

During the first quarter of 2013, we sold assets related to our solar pastes product line. The consideration for the assets sold was \$10.9 million, and resulted in a gain on the transaction of \$9.0 million which is included within miscellaneous (income) expense, net within the condensed consolidated statement of operations for the nine months ended September 30, 2013.

Table of Contents

During the fourth quarter of 2013, we tested certain property, plant and equipment held for use for impairment under ASC Topic 360, Property, Plant and Equipment. Triggered by a change in expected use of one of our Performance Coatings operating facilities in Suzhou, China in the fourth quarter of 2013, we performed the two step impairment analysis as prescribed by ASC Topic 360. As that analysis indicated that the carrying value of those assets was no longer recoverable, we estimated the fair value of the assets within the asset group using adjusted market prices for similar assets, a Level 3 classification in the fair value hierarchy. As a result of the analysis, assets held for use with a carrying value of \$20.5 million were written down to \$13.0 million. The impairment charge of \$7.5 million is included in restructuring and impairment charges in our statements of operations for the year-ended December 31, 2013.

During the second quarter of 2014, we sold non-operating real estate assets located in South Plainfield, New Jersey and in Criciuma, Brazil for gains of \$1.2 million and \$0.4 million, respectively. The gains on sale were offset by losses associated with the write-off of tenant improvements and the loss on sale of our corporate related real estate of \$1.3 million and \$3.5 million, respectively. The net loss of \$3.3 million related to these transactions is recorded in miscellaneous (income) expense, net within our condensed consolidated statements of operations for the nine months ended September 30, 2014.

As further discussed in Note 12 - Discontinued Operations, during the second quarter of 2014, the assets located at our Antwerp, Belgium manufacturing facility were classified as held-for-sale under ASC Topic 360, Property, Plant and Equipment. As such, these assets were tested for impairment comparing the fair value of the assets less costs to sell to the carrying value. The fair value was determined using both the market approach and income approach, utilizing Level 3 measurements within the fair value hierarchy, which indicated the fair value less costs to sell is less than the carrying value. As a result of the analysis, assets held-for-sale with a carrying value of \$61.5 million were written down to \$47.1 million. During the third quarter of 2014, we recorded an impairment charge of approximately \$7.2 million, which represents the additional capital expenditures during the quarter related to the construction of the facility. The additional reduction in fair value from \$47.1 million in the prior period to \$38.3 million at September 30, 2014 is attributable to the change in operational working capital during the period. The impairment charges of \$7.2 million and \$21.6 million are included in income from discontinued operations, net of taxes in our condensed consolidated statements of operations for the three and nine months ended September 30, 2014, respectively.

The following table presents information about the Company's impairment charges on assets that were measured on a fair value basis for the nine months ended September 30, 2014 and for the year ended December 31, 2013. The table also indicates the fair value hierarchy of the valuation techniques used by the Company to determine the fair value:

| Description | Fair Value Measurements Using |         |         |       | Total<br>(Losses) |
|-------------|-------------------------------|---------|---------|-------|-------------------|
|             | Level 1                       | Level 2 | Level 3 | Total |                   |
|             |                               |         |         |       |                   |

(Dollars in thousands)

|                      |      |      |           |           |             |
|----------------------|------|------|-----------|-----------|-------------|
| September 30, 2014   |      |      |           |           |             |
| Assets held for sale | \$ — | \$ — | \$ 38,302 | \$ 38,302 | \$ (21,566) |
| December 31, 2013    |      |      |           |           | —           |
| Assets held for use  | \$ — | \$ — | \$ 13,000 | \$ 13,000 | \$ (7,484)  |

The inputs to the valuation techniques used to measure fair value are classified into the following categories:

Level 1: Quoted market prices in active markets for identical assets or liabilities.

Level 2: Observable market-based inputs or unobservable inputs that are corroborated by market data.

Level 3: Unobservable inputs that are not corroborated by market data.

The following table provides quantitative information about the significant unobservable inputs used by the Company to determine the fair value of non-recurring items (in thousands):

Table of Contents

## Quantitative Information about Level 3 Fair Value Measurements

|                                    | Fair Value | Valuation Technique                            | Unobservable input                                     | Range            |
|------------------------------------|------------|--|--|------------------|
| September 30, 2014                 |            |  |  |                  |
| Impairment of assets held for sale | \$ 38,302  | Discounted Cash Flow<br>Market Comparable      | Discount Rate<br>Market Comparable Values              | 15% - 20%<br>N/A |
| December 31, 2013                  |            |  |  |                  |
| Impairment of assets held for use  | \$ 13,000  | Income Capitalization<br>Market Comparable (A) | Market Capitalization Rate<br>Market Comparable Values | 10%<br>N/A       |

(A) Fair value measurements based on adjusted market prices were developed by a third-party source using comparable sales values adjusted for the date of sale, age, condition, size, location, physical characteristics and circumstances influencing the sale, subject to the Company's corroboration for reasonableness. The Company does not have access to certain unobservable inputs used by this third party to determine the estimated fair value.

## 5. Debt

Loans payable and current portion of long-term debt consisted of the following:

|   | September<br>30,<br>2014  | December<br>31,<br>2013 |
|---|---------------------------|-------------------------|
|   | (Dollars in<br>thousands) |                         |
| Loans payable   | \$ 4,221                  | \$ 2,561                |
| Domestic accounts receivable asset securitization program | —                         | 41,000                  |
| Current portion of long-term debt                         | 4,181                     | 1,168                   |
| Loans payable and current portion of long-term debt       | \$ 8,402                  | \$ 44,729               |

Long-term debt consisted of the following:

|                                      | September<br>30,<br>2014 | December<br>31,<br>2013 |
|--------------------------------------|--------------------------|-------------------------|
|                                      | (Dollars in thousands)   |                         |
| 7.875% Senior Notes                  | \$ —                     | \$ 250,000              |
| Revolving credit facility            | —                        | 9,204                   |
| Term loan facility                   | 300,000                  | —                       |
| Capital lease obligations            | 4,453                    | 5,816                   |
| Other notes                          | 500                      | 3,617                   |
| Total long-term debt                 | 304,953                  | 268,637                 |
| Current portion of long-term debt    | (4,181)                  | (1,168)                 |
| Long-term debt, less current portion | \$ 300,772               | \$ 267,469              |

## Table of Contents

### Receivable Sales Programs

We had an asset securitization program for Ferro's U.S. trade accounts receivable where we sold undivided variable percentage interests in our domestic receivables to various purchasers, and could obtain up to \$50 million in the form of cash or letters of credit. Advances received under this program were accounted for as borrowings secured by the receivables and are included in net cash provided by financing activities. The purchasers had no recourse to Ferro's other assets for failure of payment of the receivables as a result of the lack of creditworthiness, or financial inability to pay, of the related obligor. In May 2014, the program expired and amounts outstanding were repaid at that time.

In 2011, we entered into several international programs to sell with recourse trade accounts receivable to financial institutions. Advances received under these programs are accounted for as borrowings secured by the receivables and included in net cash provided by financing activities. During the fourth quarter of 2013, the international factoring programs expired and were not renewed.

### New Credit Facility

On July 31, 2014, the Company entered into a new credit facility (the "New Credit Facility") with a group of lenders to refinance the majority of its then outstanding debt. The New Credit Facility consists of a \$200 million secured revolving line of credit with a term of five years and a \$300 million secured term loan facility with a term of seven years. The New Credit Facility replaces the prior \$250 million revolving credit facility (described below) and provided funding to repurchase the 7.875% Senior Notes (described below). Subject to certain conditions, the Company can request up to \$200 million of additional commitments under the New Credit Facility, though the lenders are not required to provide such additional commitments. In addition, up to \$100 million of the revolving line of credit will be available to certain of the Company's subsidiaries in the form of revolving loans denominated in Euros.

Certain of the Company's U.S. subsidiaries have guaranteed the Company's obligations under the New Credit Facility and such obligations are secured by (a) substantially all of the personal property of the Company and the U.S. subsidiary guarantors and (b) a pledge of 100% of the stock of most of the Company's U.S. subsidiaries and 65% of most of the stock of the Company's first tier foreign subsidiaries.

**Interest Rate – Term Loan:** The interest rates applicable to the term loans will be, at the Company's option, equal to either a base rate or a London Interbank Offered Rate ("LIBOR") rate plus, in both cases, an applicable margin.

- The base rate will be the highest of (i) the federal funds rate plus 0.50%, (ii) PNC's prime rate or (iii) the daily LIBOR rate plus 1.00%.
  - The applicable margin for base rate loans is 2.25%.
  - The LIBOR rate will be set as quoted by Bloomberg and shall not be less than 0.75%.
  - The applicable margin for LIBOR rate loans is 3.25%.
  - For LIBOR rate loans, the Company may choose to set the duration on individual borrowings for periods of one, two, three or six months, with the interest rate based on the applicable LIBOR rate for the corresponding duration.
- At September 30, 2014, the Company had borrowed \$300 million under the term loan facility at an annual rate of 4.0%. There were no additional borrowings available under the term loan facility.

**Interest Rate – Revolving Credit Line:** The interest rates applicable to loans under the revolving credit line will be, at the Company's option, equal to either a base rate or a LIBOR rate plus an applicable variable margin. The variable margin will be based on the ratio of (a) the Company's total consolidated debt outstanding at such time to (b) the Company's consolidated EBITDA computed for the period of four consecutive fiscal quarters most recently ended.

The base rate will be the highest of (i) the federal funds rate plus 0.50%, (ii) PNC's prime rate or (iii) the daily LIBOR rate plus 1.00%.

- The applicable margin for base rate loans will vary between 1.50% and 2.00%.
- The LIBOR rate will be set as quoted by Bloomberg for U.S. Dollars.
- The applicable margin for LIBOR Rate Loans will vary between 2.50% and 3.00%.
- For LIBOR rate loans, the Company may choose to set the duration on individual borrowings for periods of one, two, three or six months, with the interest rate based on the applicable LIBOR rate for the corresponding duration.



## Table of Contents

At September 30, 2014, there were no borrowings under the revolving credit line. After reductions for outstanding letters of credit secured by these facilities, we had \$194.7 million of additional borrowings available at September 30, 2014.

The New Credit Facility contains customary restrictive covenants including, but not limited to, limitations on use of loan proceeds, limitations on the Company's ability to pay dividends and repurchase stock, limitations on acquisitions and dispositions and limitations on certain types of investments. The New Credit Facility also contains standard provisions relating to conditions of borrowing and customary events of default, including the non-payment of obligations by the Company and the bankruptcy of the Company.

Specific to the revolving credit facility, the Company is subject to financial covenants regarding the Company's outstanding net indebtedness and interest coverage ratios.

If an event of default occurs, all amounts outstanding under the New Credit Facility may be accelerated and become immediately due and payable. At September 30, 2014, we were in compliance with the covenants of the New Credit Facility.

### 7.875% Senior Notes

In 2010, we issued \$250 million of 7.875% Senior Notes due 2018 (the "Senior Notes"). The Senior Notes were issued at par and bore interest at a rate of 7.875% per year, payable semi-annually in arrears on February 15 and August 15 of each year. In July 2014, the Company commenced a tender offer for any and all of its outstanding Senior Notes at a price of \$1,043 per \$1,000 principal amount of Senior Notes. Approximately \$143 million of the Senior Notes were purchased through the tender offer and the remaining \$107 million were redeemed in the third quarter of 2014, at prices ranging from 100% to 103.938% of the principal amount, in accordance with the debt agreement. The redemption utilized proceeds from our new credit facility, as discussed above, and the proceeds from the sale of the Specialty Plastics business, as discussed in Note 4.

In conjunction with the redemption of the Senior Notes, we recorded a charge of \$13.5 million, which is comprised of a repurchase premium of \$10.5 million and the write-off of unamortized issuance costs of \$3.0 million. This charge is included within loss on extinguishment of debt in the condensed consolidated statements of operations for the three and nine months ended September 30, 2014, respectively.

### Revolving Credit Facility

In 2010, we entered into the Third Amended and Restated Credit Agreement with a group of lenders for a five-year, \$350 million multi-currency senior revolving credit facility (the "2010 Credit Facility"), which was amended in March of 2013 (the "2013 Amended Credit Facility") to provide additional operating flexibility. In August 2014, the 2013 Amended Credit Facility was terminated and repaid, using proceeds from the new credit facility, as discussed above. In conjunction with the termination, the Company recorded a charge of \$0.9 million related to the write-off of unamortized issuance costs, which is included within loss on extinguishment of debt in our condensed consolidated statements of operations for the three and nine months ended September 30, 2014, respectively.

### Other Financing Arrangements

We maintain other lines of credit to provide global flexibility for our short-term liquidity requirements. These facilities are uncommitted lines for our international operations and totaled \$12.6 million and \$17.1 million at September 30, 2014 and December 31, 2013, respectively. The unused portions of these lines provided additional liquidity of \$10.6 million at September 30, 2014, and \$10.1 million at December 31, 2013.



Table of Contents

## 6. Financial Instruments

The following financial instrument assets (liabilities) are presented at their respective carrying amount, fair value and classification within the fair value hierarchy:

|   | September 30, 2014     |                  | Level 1   | Level 2   | Level 3 |
|---|------------------------|------------------|-----------|-----------|---------|
|   | Carrying Amount        | Fair Value Total |           |           |         |
|   | (Dollars in thousands) |                  |           |           |         |
| Cash and cash equivalents               | \$ 95,286              | \$ 95,286        | \$ 95,286 | \$ —      | \$ —    |
| Loans payable                           | (4,221)                | (4,221)          | —         | (4,221)   | —       |
| Term loan facility                      | (300,000)              | (303,504)        | —         | (303,504) | —       |
| Other long-term notes payable           | (4,681)                | (3,867)          | —         | (3,867)   | —       |
| Foreign currency forward contracts, net | 7,808                  | 7,808            | —         | 7,808     | —       |

|   | December 31, 2013      |                  | Level 1   | Level 2  | Level 3 |
|---|------------------------|------------------|-----------|----------|---------|
|   | Carrying Amount        | Fair Value Total |           |          |         |
|   | (Dollars in thousands) |                  |           |          |         |
| Cash and cash equivalents               | \$ 28,328              | \$ 28,328        | \$ 28,328 | \$ —     | \$ —    |
| Loans payable                           | (43,561)               | (43,561)         | —         | (43,561) | —       |
| 7.875% Senior Notes                     | (250,000)              | (266,250)        | (266,250) | —        | —       |
| Revolving credit facility               | (9,204)                | (9,496)          | —         | (9,496)  | —       |
| Other long-term notes payable           | (3,617)                | (2,988)          | —         | (2,988)  | —       |
| Foreign currency forward contracts, net | (2,255)                | (2,255)          | —         | (2,255)  | —       |

The fair values of cash and cash equivalents are based on the fair values of identical assets. The fair values of loans payable are based on the present value of expected future cash flows and approximate their carrying amounts due to the short periods to maturity. The fair values of the revolving credit facility and the term loan facility are based on the present value of expected future cash flows and interest rates that would be currently available to the company for issuance of similar types of debt instruments with similar terms and remaining maturities adjusted for the Company's non-performance risk.

Foreign currency forward contracts. We manage foreign currency risks principally by entering into forward contracts to mitigate the impact of currency fluctuations on transactions. These forward contracts are not formally designated as

hedges. Gains and losses on these foreign currency forward contracts are netted with gains and losses from currency fluctuations on transactions arising from international trade and reported as foreign currency (gains) losses, net in the condensed consolidated statements of operations. We recognized net foreign currency gains of \$0.3 million and net foreign currency losses of \$1.0 million in the three and nine months ended September 30, 2014, respectively, which are primarily comprised of the foreign exchange impact on transactions in countries where it is not economically feasible for us to enter into hedging arrangements and hedging inefficiencies, such as timing of transactions. We recognized net gains of \$8.7 million and net gains of \$11.0 million in the three and nine months ended September 30, 2014, respectively, arising from the change in fair value of our financial instruments, which offset the related net gains and losses on international trade transactions. The fair values of these contracts are based on market prices for comparable contracts. The notional amount of foreign currency forward contracts was \$259.5 million at September 30, 2014, and \$244.9 million at December 31, 2013.

The following table presents the effect on our condensed consolidated statements of operations for the three months ended September 30, 2014 and 2013, respectively, of our foreign currency forward contracts:

|                                    | Amount of Gain<br>(Loss)<br>Recognized in<br>Earnings<br>Three Months<br>Ended<br>September 30,<br>2014      2013 |            | Location of Gain (Loss) in Earnings  |
|------------------------------------|---|------------|--------------------------------------|
|                                    | (Dollars in<br>thousands)   |            |                                      |
| Foreign currency forward contracts | \$ 8,660  | \$ (2,652) | Foreign currency (gains) losses, net |

Table of Contents

The following table presents the effect on our condensed consolidated statements of operations for the nine months ended September 30, 2014 and 2013, respectively, of our foreign currency forward contracts:

|                                    | Amount of Gain<br>(Loss)<br>Recognized in<br>Earnings<br>Nine Months Ended<br>September 30,<br>2014      2013 |            | Location of Gain (Loss) in Earnings  |
|------------------------------------|---|------------|--------------------------------------|
|                                    | (Dollars in<br>thousands)   |            |                                      |
| Foreign currency forward contracts | \$ 10,967   | \$ (6,652) | Foreign currency (gains) losses, net |

The following table presents the fair values on our condensed consolidated balance sheets of foreign currency forward contracts:

|                                    | September<br>30,<br>2014  | December<br>31,<br>2013 | Balance Sheet Location                         |
|------------------------------------|---------------------------|-------------------------|--|
|                                    | (Dollars in<br>thousands) |                         |  |
| Asset derivatives:                 |                           |                         |  |
| Foreign currency forward contracts | \$ 8,050                  | \$ 186                  | Other current assets                           |
| Liability derivatives:             |                           |                         |  |
| Foreign currency forward contracts | \$ (242)                  | \$ (2,441)              | Accrued expenses and other current liabilities |

## 7. Income Taxes

During the first nine months of 2014, income tax expense related to continuing operations was \$12.3 million, compared with \$3.6 million in the prior-year same period. The 2014 and 2013 year-to-date income tax expense related to continuing operations compared to pre-tax income from continuing operations was not significantly different than that which would have resulted from applying the Company's statutory income tax rate.

## 8. Contingent Liabilities

We have recorded environmental liabilities of \$9.4 million at September 30, 2014, and \$9.7 million at December 31, 2013, for costs associated with the remediation of certain of our properties that have been contaminated. The balance at September 30, 2014, and December 31, 2013, was primarily comprised of liabilities related to a non-operating facility in Brazil, and for retained environmental obligations related to a site in the United States that was part of the sale of our North American and Asian metal powders product lines in the fourth quarter of 2013. The costs include legal and consulting fees, site studies, the design and implementation of remediation plans, post-remediation monitoring and related activities. The ultimate liability could be affected by numerous uncertainties, including the extent of contamination found, the required period of monitoring and the ultimate cost of required remediation.

In the fourth quarter of 2013, the Supreme Court in Argentina ruled unfavorably related to certain export taxes associated with a divested operation. As a result of this ruling, we have recorded a \$6.8 million liability as of September 30, 2014, and December 31, 2013.

There are various lawsuits and claims pending against the Company and its consolidated subsidiaries. We do not currently expect the resolution of these lawsuits and claims to materially affect the consolidated financial position, results of operations, or cash flows of the Company.

## 9. Retirement Benefits

Table of Contents

Net periodic benefit (credit) cost of our U.S. pension plans (including our unfunded nonqualified plans), non-U.S. pension plans, and postretirement health care and life insurance benefit plans for the three months ended September 30, 2014 and 2013, respectively, follow:

|   | U.S. Pension Plans               |            | Non-U.S. Pension Plans |          | Other Benefit Plans |        |
|---|----------------------------------|------------|------------------------|----------|---------------------|--------|
|   | 2014                             | 2013       | 2014                   | 2013     | 2014                | 2013   |
|   | Three Months Ended September 30, |            |                        |          |                     |        |
|   | (Dollars in thousands)           |            |                        |          |                     |        |
| Service cost                                | \$ 5                             | \$ 4       | \$ 443                 | \$ 519   | \$ —                | \$ —   |
| Interest cost                               | 4,924                            | 4,485      | 1,259                  | 1,224    | 301                 | 285    |
| Expected return on plan assets              | (7,034)                          | (6,181)    | (776)                  | (742)    | —                   | —      |
| Amortization of prior service cost (credit) | 3                                | 3          | 15                     | 7        | (26)                | (29)   |
| Net periodic benefit (credit) cost          | \$ (2,102)                       | \$ (1,689) | \$ 941                 | \$ 1,008 | \$ 275              | \$ 256 |

Net periodic benefit (credit) cost for the nine months ended Balance at September 30, 2014 and 2013, respectively, follow:

|   | U.S. Pension Plans              |            | Non-U.S. Pension Plans |          | Other Benefit Plans |        |
|---|---------------------------------|------------|------------------------|----------|---------------------|--------|
|   | 2014                            | 2013       | 2014                   | 2013     | 2014                | 2013   |
|   | Nine Months Ended September 30, |            |                        |          |                     |        |
|   | (Dollars in thousands)          |            |                        |          |                     |        |
| Service cost                                | \$ 14                           | \$ 12      | \$ 1,354               | \$ 1,577 | \$ —                | \$ —   |
| Interest cost                               | 14,772                          | 13,455     | 3,874                  | 3,672    | 902                 | 855    |
| Expected return on plan assets              | (21,101)                        | (18,543)   | (2,382)                | (2,229)  | —                   | —      |
| Amortization of prior service cost (credit) | 9                               | 9          | 46                     | 21       | (79)                | (87)   |
| Net periodic benefit (credit) cost          | \$ (6,306)                      | \$ (5,067) | \$ 2,892               | \$ 3,041 | \$ 823              | \$ 768 |

Net periodic benefit (credit) for our U.S. pension plans for the nine months ended September 30, 2014, increased from the effects of larger plan asset balances resulting in increased expected returns partially offset by the effect of a higher discount rate. Net periodic benefit cost for our non-U.S. pension plans and postretirement health care and life insurance benefit plans did not change significantly compared with the prior year. During the first nine months of 2014, we made contributions to our U.S. pension plans of \$22 million, resulting in the improvement of the plans' funded status compared with December 31, 2013.

## 10. Stock-Based Compensation

On May 22, 2013, our shareholders approved the 2013 Omnibus Incentive Plan (the “Plan”), which was adopted by the Board of Directors on February 22, 2013, subject to shareholder approval. The Plan's purpose is to promote the Company's long-term financial interests and growth by attracting, retaining and motivating high quality key employees and directors, to achieve the Company's short- and long-range performance goals and objectives, thereby aligning their interests with those of its shareholders. The Plan reserves 4,400,000 shares of common stock to be issued for grants of several different types of long-term incentives, including stock options, stock appreciation rights, restricted shares, performance shares, other common stock based awards, and dividend equivalent rights. No future grants may be made under the previous incentive plans. However, any outstanding awards or grants made under the previous incentive plans will remain until terminated in accordance with their terms.

During the first nine months of 2014, our Board of Directors granted 0.2 million stock options, 0.2 million performance share units and 0.1 million restricted stock units under the Plan. Additionally, during the second quarter of 2014, outside directors were issued 0.1 million deferred stock units at a fair value of \$13.31, the closing market price of our common stock on the date of the grant, which was expensed immediately due to terms of the agreement.



Table of Contents

We estimate the fair value of each stock option on the date of grant using the Black-Scholes option pricing model. The following table details the weighted-average grant-date fair values and the assumptions used for estimating the fair values of stock option grants made during the nine months ended September 30, 2014:

|  | Stock<br>Options |
|--|------------------|
| Weighted-average grant-date fair value | \$ 9.54          |
| Expected life, in years                | 6.0              |
| Risk-free interest rate                | 2.2 %            |
| Expected volatility                    | 86.3 %           |

The weighted average grant date fair value of our performance share units was \$13.09. We measure the fair value of performance share units based on the closing market price of our common stock on the date of the grant. These shares are currently expensed at target and are evaluated each reporting period for likelihood of achieving the performance criteria.

We measure the fair value of deferred stock units based on the closing market price of our common stock on the date of the grant. The weighted-average fair value per unit for grants made during the nine months ended September 30, 2014, was \$13.17.

We recognized stock-based compensation expense of \$8.7 million for the nine months ended September 30, 2014, and \$4.4 million for the nine months ended September 30, 2013. At September 30, 2014, unearned compensation cost related to the unvested portion of all stock-based awards was approximately \$4.6 million and is expected to be recognized over the remaining vesting period of the respective grants, through the first quarter of 2017.

## 11. Restructuring and Cost Reduction Programs

In 2013, we initiated a Global Cost Reduction Program that was designed to address 3 key areas of the company - (1) business realignment, (2) operational efficiency and (3) corporate and back office functions. Business realignment was targeted at right-sizing our commercial management organizations globally. The operational efficiency component of the program was designed to improve the efficiency of our plant operations and supply chain. The corporate and back office initiative is principally comprised of work that we are doing with our strategic partners in the areas of finance and accounting and information technology outsourcing, and procurement. The cumulative charges incurred to date associated with these programs are \$39.9 million. Total costs related to the program expected to be incurred are approximately \$42.9 million. Total restructuring charges were \$1.5 million and \$7.8 million for the three and nine months ended September 30, 2014, respectively.

The activities and accruals related to our restructuring and cost reduction programs are summarized below:

|                                | Employee<br>Severance  | Other<br>Costs | Asset<br>Impairment | Total     |
|--------------------------------|------------------------|----------------|---------------------|-----------|
|                                | (Dollars in thousands) |                |                     |           |
| Balances at December 31, 2013  | \$ 6,999               | \$ 4,579       | \$ —                | \$ 11,578 |
| Restructuring charges          | 2,467                  | 5,362          | —                   | 7,829     |
| Cash payments                  | (8,818)                | (8,429)        | —                   | (17,247)  |
| Non-cash items                 | (47)                   | (57)           | —                   | (104)     |
| Balances at September 30, 2014 | \$ 601                 | \$ 1,455       | \$ —                | \$ 2,056  |

We expect to make cash payments to settle the remaining liability for employee termination benefits and other costs over the next twelve months, except where legal or contractual restrictions prevent us from doing so.

Table of Contents

## 12. Discontinued Operations

During the first quarter of 2013, we completed the sale of the stock of our pharmaceuticals business, Ferro Pfanstiehl Laboratories, Inc. ("FPL"), which was previously reported within the Pharmaceuticals reportable segment. Consideration was comprised of a \$16.9 million cash payment, and the transaction also included an earn-out incentive of up to \$8.0 million based on achieving certain earnings targets over a two-year period. In March 2013, prior to the sale, an impairment loss of \$8.7 million associated with the long lived assets of FPL was recorded under ASC Topic 360 Property, Plant and Equipment. The write down was determined by estimating the fair value of the assets less cost to sell of \$14.8 million using the market approach considering a bona fide purchase offer, a Level 3 measurement within the fair value hierarchy. Ferro has classified FPL's operating results, net of tax, as discontinued operations in the accompanying condensed consolidated statements of income for the nine months ended September 30, 2013.

During the second quarter of 2014, we entered into a definitive agreement to sell substantially all of the assets in our Specialty Plastics reportable segment to A. Schulman, Inc. and its wholly owned subsidiary, A. Schulman Castellon, S.L.U. (collectively "Schulman") for a cash purchase price of \$91 million. The transaction closed on July 1, 2014 and resulted in net proceeds of \$88.3 million after expenses, and a gain of approximately \$54 million. Assets included in the transaction are Ferro's plastics manufacturing sites in Stryker, Ohio; Evansville and Plymouth, Indiana; Carpentersville, Illinois; and Castellon Spain. We have classified the Specialty Plastics reportable segment assets and liabilities as held-for-sale in the accompanying condensed consolidated balance sheets as of December 31, 2013 and have classified the operating results, net of tax, as discontinued operations in the accompanying condensed consolidated statements of operations for all periods presented.

During the second quarter of 2014, we commenced a process to market for sale all of the assets within our Polymer Additives reportable segment. We determined that the criteria to classify these assets as held-for-sale under ASC Topic 360, Property, Plant and Equipment, have been met. As such, we have classified these assets and liabilities as held-for-sale in the accompanying condensed consolidated balance sheets and have classified the related operating results, net of tax, as discontinued operations in the accompanying condensed consolidated statements of operations for all periods presented. For purposes of applying the guidance within ASC 360, the assets have been categorized into two disposal groups: (1) the Antwerp, Belgium manufacturing assets ("Antwerp") and (2) the remainder of the Polymer Additives reportable segment ("PAD") collectively ("Polymer Additives reportable segment"). As the disposal groups have met the criteria to be recorded as held-for-sale, they are required to be recorded at the lesser of carrying value, or fair value less costs to sell. As the estimated fair value of PAD less costs to sell exceeds the carrying value of this disposal group, a gain is expected to be recognized in the period the sale is completed, therefore, no adjustments have been made to its carrying value. As discussed in Note 4 - Property, Plant and Equipment, the Antwerp assets, which had a carrying value of \$61.5 million, were written down to \$47.1 million and a \$14.4 million impairment charge was recorded in the second quarter of 2014. An additional impairment charge of \$7.2 million was recorded during the third quarter of 2014 related to additional construction costs incurred during the period. These impairment charges of \$7.2 million and \$21.6 million have been recorded in income from discontinued operations, net of tax for the three and nine months ended September 30, 2014, respectively.

The table below summarizes results for the FPL, Specialty Plastics and the Polymer Additives reportable segments for the three and nine months ended September 30, 2014 and 2013, which are reflected in our condensed consolidated statements of operations as discontinued operations. Interest expense has been allocated to the discontinued operations based on the ratio of net assets of each business to consolidated net assets excluding debt.

18

---

Table of Contents

|   | Three Months Ended     |            | Nine Months Ended |            |
|---|------------------------|------------|-------------------|------------|
|   | September 30,          |            | September 30,     |            |
|   | 2014                   | 2013       | 2014              | 2013       |
|   | (Dollars in thousands) |            |                   |            |
| Net sales   | \$ 65,948              | \$ 110,020 | \$ 288,422        | \$ 353,136 |
| Cost of sales   | 56,259                 | 97,876     | 245,059           | 310,967    |
| Gross profit  | 9,689                  | 12,144     | 43,363            | 42,169     |
| Selling, general and administrative expenses            | 1,851                  | 6,489      | 14,496            | 20,696     |
| Restructuring and impairment charges                    | 7,210                  | 272        | 21,574            | 9,334      |
| Interest expense  | 921                    | 1,727      | 3,827             | 6,280      |
| Gain on sale of business, net                           | (53,826)               | —          | (53,826)          | —          |
| Miscellaneous expense, net                              | 190                    | 264        | 326               | 613        |
| Income from discontinued operations before income taxes | 53,343                 | 3,392      | 56,966            | 5,246      |
| Income tax expense                                      | 3,219                  | 162        | 3,778             | 466        |
| Income from discontinued operations, net of taxes       | \$ 50,124              | \$ 3,230   | \$ 53,188         | \$ 4,780   |

The following table summarizes the assets and liabilities which are classified as held-for-sale at September 30, 2014, and December 31, 2013:

|  | September              | December  |
|--|------------------------|-----------|
|  | 30, 2014               | 31, 2013  |
|  | (Dollars in thousands) |           |
| Accounts receivable, net                       | \$ 32,341              | \$ 49,647 |
| Inventories                                    | 48,566                 | 45,436    |
| Other current assets                           | 5,573                  | 6,232     |
| Current assets held-for-sale                   | 86,480                 | 101,315   |
| Property, plant and equipment, net             | 54,116                 | 71,849    |
| Other non-current assets                       | 414                    | 253       |
| Total assets held-for-sale                     | 141,010                | 173,417   |
| Accounts payable                               | 25,353                 | 33,235    |
| Accrued expenses and other current liabilities | 4,950                  | 6,780     |
| Current liabilities held-for-sale              | 30,303                 | 40,015    |
| Other non-current liabilities                  | 2,863                  | 2,893     |
| Total liabilities held-for-sale                | \$ 33,166              | \$ 42,908 |



Table of Contents

## 13. Earnings Per Share

Details of the calculation of basic and diluted earnings per share are shown below:

|  | Three Months Ended<br>September 30,      |           | Nine Months Ended<br>September 30, |           |
|--|--|-----------|------------------------------------|-----------|
|  | 2014                                     | 2013      | 2014                               | 2013      |
|  | (In thousands, except per share amounts) |           |                                    |           |
| Basic earnings per share computation:  |  |           |                                    |           |
| Net income attributable to Ferro Corporation common shareholders   | \$ 47,465                                | \$ 12,652 | \$ 74,629                          | \$ 11,405 |
| Adjustment for income from discontinued operations   | (50,124)                                 | (3,230)   | (53,188)                           | (4,780)   |
| Total  | \$ (2,659)                               | \$ 9,422  | \$ 21,441                          | \$ 6,625  |
| Weighted-average common shares outstanding   | 86,979                                   | 86,426    | 86,898                             | 86,464    |
| Basic (loss) earnings per share from continuing operations attributable to Ferro Corporation common shareholders   | \$ (0.03)                                | \$ 0.11   | \$ 0.25                            | \$ 0.08   |
| Diluted earnings per share computation:  |  |           |                                    |           |
| Net income attributable to Ferro Corporation common shareholders   | \$ 47,465                                | \$ 12,652 | \$ 74,629                          | \$ 11,405 |
| Adjustment for income from discontinued operations   | (50,124)                                 | (3,230)   | (53,188)                           | (4,780)   |
| Total  | \$ (2,659)                               | \$ 9,422  | \$ 21,441                          | \$ 6,625  |
| Weighted-average common shares outstanding   | 86,979                                   | 86,426    | 86,898                             | 86,464    |
| Assumed exercise of stock options  | —  | 200       | 535                                | 112       |
| Assumed satisfaction of deferred stock unit conditions   | —  | 77        | 30                                 | 63        |
| Assumed satisfaction of restricted stock unit conditions   | —  | 120       | 233                                | 84        |
| Assumed satisfaction of performance stock unit conditions  | —  | 375       | 632                                | 247       |
| Assumed satisfaction of restricted share conditions  | —  | 52        | 10                                 | 63        |
| Weighted-average diluted shares outstanding  | 86,979                                   | 87,250    | 88,338                             | 87,033    |
| Diluted (loss) earnings per share from continuing operations attributable to Ferro Corporation common shareholders | \$ (0.03)                                | \$ 0.11   | \$ 0.24                            | \$ 0.08   |

The number of anti-dilutive or unearned shares, including shares related to contingently convertible debt, was 3.8 million and 2.5 million for the three and nine months ended September 30, 2014, respectively, and 2.0 million and 2.4 million for the three and nine months ended September 30, 2013, respectively. These shares were excluded from the calculation of diluted earnings per share due to their anti-dilutive impact.

## 14. Accumulated Other Comprehensive Income (Loss)

Changes in accumulated other comprehensive income (loss) by component, net of tax, were as follows:

Three Months Ended September 30, 2014

|   | Postretirement<br>Benefit<br>Liability<br>Adjustments | Translation<br>Adjustments | Other<br>Adjustments | Total      |
|---|---|----------------------------|----------------------|------------|
|   | (Dollars in thousands)                                |                            |                      |            |
| Beginning accumulated other comprehensive income (loss)                 | \$ 1,892  | \$ 6,638                   | \$ (70)              | \$ 8,460   |
| Other comprehensive loss before reclassifications                       | —   | (12,309)                   | —                    | (12,309)   |
| Amounts reclassified from accumulated other comprehensive income (loss) | (44)  | —                          | —                    | (44)       |
| Net current period other comprehensive loss                             | (44)  | (12,309)                   | —                    | (12,353)   |
| Ending accumulated other comprehensive income (loss)                    | \$ 1,848  | \$ (5,671)                 | \$ (70)              | \$ (3,893) |



Table of Contents

Changes in accumulated other comprehensive income (loss) by component, net of tax, were as follows:

|   | Nine Months Ended September 30, 2014                  |                            |                      |            |
|---|---|----------------------------|----------------------|------------|
|   | Postretirement<br>Benefit<br>Liability<br>Adjustments | Translation<br>Adjustments | Other<br>Adjustments | Total      |
|   | (Dollars in thousands)                                |                            |                      |            |
| Beginning accumulated other comprehensive income (loss)                 | \$ 1,942  | \$ 6,621                   | \$ (70)              | \$ 8,493   |
| Other comprehensive loss before reclassifications                       | —   | (12,292)                   | —                    | (12,292)   |
| Amounts reclassified from accumulated other comprehensive income (loss) | (94)  | —                          | —                    | (94)       |
| Net current period other comprehensive loss                             | (94)  | (12,292)                   | —                    | (12,386)   |
| Ending accumulated other comprehensive income (loss)                    | \$ 1,848  | \$ (5,671)                 | \$ (70)              | \$ (3,893) |

## 15. Reporting for Segments

As discussed in Note 12, substantially all of the assets and liabilities of the Polymer Additives reportable segments were classified as held-for-sale at September 30, 2014, with their operations included in discontinued operations on the condensed consolidated statements of operations. Additionally, substantially all of the assets of the Specialty Plastics reportable segment were sold on July 1, 2014. The retained assets and operations of the Specialty Plastics reportable segment, which includes the manufacturing facilities in Edison, New Jersey, and Venezuela, are reflected within our Pigments, Powders and Oxides and Performance Coatings reportable segments, respectively. All periods presented reflect these changes to the composition of our reportable segments.

Net sales to external customers by segment are presented in the table below. Sales between segments were not material.

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Three Months Ended<br>September 30, | Nine Months Ended<br>September 30, |
|-------------------------------------|------------------------------------|

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|                              | 2014                   | 2013       | 2014       | 2013       |
|------------------------------|------------------------|------------|------------|------------|
|                              | (Dollars in thousands) |            |            |            |
| Performance Coatings         | \$ 144,900             | \$ 154,238 | \$ 446,928 | \$ 451,915 |
| Performance Colors and Glass | 102,727                | 94,059     | 312,126    | 298,633    |
| Pigments, Powders and Oxides | 28,127                 | 49,786     | 91,644     | 162,190    |
| Total net sales              | \$ 275,754             | \$ 298,083 | \$ 850,698 | \$ 912,738 |

Each segment's gross profit and reconciliations to income before income taxes are presented in the table below:

|  | Three Months Ended<br>September 30, |           | Nine Months Ended<br>September 30, |            |
|--|-------------------------------------|-----------|------------------------------------|------------|
|  | 2014                                | 2013      | 2014                               | 2013       |
|  | (Dollars in thousands)              |           |                                    |            |
| Performance Coatings                         | \$ 31,198                           | \$ 36,826 | \$ 102,437                         | \$ 101,260 |
| Performance Colors and Glass                 | 33,945                              | 28,713    | 103,669                            | 87,203     |
| Pigments, Powders and Oxides                 | 8,285                               | 8,962     | 22,948                             | 27,450     |
| Other cost of sales                          | (624)                               | (2,398)   | (2,843)                            | (4,915)    |
| Total gross profit                           | 72,804                              | 72,103    | 226,211                            | 210,998    |
| Selling, general and administrative expenses | 51,716                              | 52,589    | 152,345                            | 165,471    |
| Restructuring and impairment charges         | 1,521                               | 3,562     | 7,829                              | 26,086     |
| Other expense, net                           | 17,454                              | 5,826     | 32,200                             | 9,080      |
| Income before income taxes                   | \$ 2,113                            | \$ 10,126 | \$ 33,837                          | \$ 10,361  |

Table of Contents

16. Acquisitions

In July 2014, the Company acquired certain commercial assets of a reseller of our porcelain enamel products in Turkey for a cash purchase price of \$6.7 million, which is recorded in amortizable intangible assets, net on the condensed consolidated balance sheets.

On September 21, 2014, Ferro Coatings Italy S.R.L., a 100% owned subsidiary of Ferro, signed a definitive agreement to acquire 100% of the outstanding common shares and voting interest of Vetriceramici S.p.A. (“Vetriceramici”) for EURO €83 million in cash. At September 30, 2014 the purchase price is approximately \$104.8 million based on current exchange rates. Vetriceramici is an Italian manufacturing, marketing and distribution group that offers a range of products (principally ceramic glazes, frits, inks and screen printing bases) to its customers for the production of ceramic tiles, with some diversification in the glass sector. Vetriceramici currently has manufacturing facilities in Italy and Mexico, a mixing plant in Poland and research and development and sales offices in Italy and Turkey. The Company expects to achieve synergies and cost reductions by eliminating redundant processes and facilities. The transaction is expected to close in the fourth quarter of 2014.

Table of Contents

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

Overview

During the three months ended September 30, 2014, net sales were down \$22.3 million, or 7.5%, compared with the prior-year same period. Of the decline, \$20.3 million, or 91%, was the impact of selling our North American and Asian metal powders business in the fourth quarter of 2013 and the exit of solar pastes, comprised of a \$8.5 million decline in net sales excluding precious metals, and a \$11.7 million decline in sales of precious metals. In addition to the decline attributable to the sold business, net sales decreased in Performance Coatings and Pigments, Powders and Oxides, partially mitigated by an increase of \$8.7 million in Performance Colors and Glass. The \$8.7 million increase in Performance Colors and Glass was driven by higher sales volumes and product pricing, which were partially offset by unfavorable mix. Performance Coatings net sales decreased by \$9.4 million compared with the prior-year same period, which was driven by lower product pricing, partially off-set by higher sales volumes and favorable foreign currency impacts. Pigments, Powders and Oxides net sales decreased by \$1.4 million, after the impact of sold and exited businesses, compared with the prior-year same period with the main driver being lower sales volumes, which was partially mitigated by favorable mix. Despite the \$22.3 million decline in net sales, gross profit remained relatively flat compared with the prior-year same period. While gross profit remained relatively flat, as a percentage of net sales excluding precious metals, it increased approximately 150 basis points to 27.5%.

For the three months ended September 30, 2014, selling, general and administrative ("SG&A") expenses were down \$0.9 million, or 1.7%, compared with the prior-year same period, primarily driven by our cost reduction initiatives.

For the three months ended September 30, 2014, net income was \$47.6 million, compared with net income of \$13.0 million in 2013, and net income attributable to common shareholders was \$47.5 million, compared with a net income attributable to common shareholders of \$12.7 million in 2013. Loss from continuing operations was \$2.6 million in the three months ended September 30, 2014, compared with income from continuing operations of \$9.8 million in 2013. The loss from continuing operations in the third quarter of 2014 was driven by the loss on extinguishment of debt of \$14.4 million. Our total gross profit for the third quarter of 2014 was \$72.8 million, compared with \$72.1 million in 2013.

Third Quarter 2014 Transactional Activity

Disposition of the Specialty Plastics Business

As discussed in Note 12, in July 2014 we completed the sale of substantially all of the assets in our Specialty Plastics business to A. Schulman, Inc. for \$91 million in cash. The sale resulted in a gain of approximately \$54 million and net cash proceeds of \$88 million. Cash proceeds to pay down the 7.785% Senior Notes, as discussed below. This disposition was part of our value creation strategy, as we turn our focus to our core functional coatings and color businesses.

Acquisition of Turkey Assets

In July 2014, the Company acquired certain commercial assets of a reseller of our porcelain enamel products in Turkey for a cash purchase price of \$6.7 million. Our porcelain enamel sales to this entity in 2013 were approximately \$6.0 million, and we expect this acquisition will generate approximately \$1.5 million of incremental sales and gross profit. This action was an initial step to strengthen sales in growing geographic markets, such as Turkey.

#### 7.875% Senior Note Tender Offer

As discussed in Note 5, we completed a tender offer for our Senior Notes resulting in the purchase of \$143 million of notes, with the remaining outstanding notes of \$107 million being redeemed during the third quarter of 2014.

## Table of Contents

### Senior Secured Credit Facilities

As discussed in Note 5, on July 31, 2014, the Company entered into the Credit Agreement (the “Financing Agreement”) with PNC Bank, National Association (“PNC”), as the Administrative Agent, the Collateral Agent and an Issuer, JPMorgan Chase Bank, N.A., as the Syndication Agent and an Issuer, the other agents party thereto and various financial institutions as lenders (the “Lenders”). The Financing Agreement refinances and replaces the 2013 Amended Credit Facility.

The Financing Agreement consists of a \$200 million secured revolving line of credit with a term of five years and a \$300 million secured term loan facility with a term of seven years. Up to \$100 million of the revolving line of credit under the Financing Agreement will be available to certain of the Company’s subsidiaries in the form of revolving loans denominated in Euros. Under the terms of the Financing Agreement, the Company is entitled, subject to the satisfaction of certain conditions, to request additional commitments under the revolving line of credit or term loans in the aggregate principal amount of up to \$200 million to the extent that existing or new lenders agree to provide such additional commitments and/or term loans.

The refinancing of the 7.875% Senior Notes and the 2013 Amended Credit Facility will reduce interest expense and further enhance strategic flexibility.

### Acquisition of Vettriceramici S.p.A

On September 21, 2014, Ferro Coatings Italy S.R.L., a 100% owned subsidiary of Ferro, signed a definitive agreement to acquire 100% of the outstanding common shares and voting interest of Vettriceramici S.p.A. (“Vettriceramici”) for EURO €83 million in cash. At September 30, 2014 the purchase price is approximately \$104.8 million based on current exchange rates. Vettriceramici is an Italian manufacturing, marketing and distribution group that offers a range of products (principally ceramic glazes, frits, inks and screen printing bases) to its customers for the production of ceramic tiles, with some diversification in the glass sector. Vettriceramici currently has operations manufacturing facilities in Italy and Mexico, a mixing plant in Poland and research and development and sales offices in Italy and Turkey.

Vettriceramici is a leading global supplier of specialty products that enhance the appearance and improve the durability of high-end ceramic tile. Its product line includes high-value, specialty frits and grits (finely-milled frits), glazes, digital inks, and other specialized tile coatings. Additionally, Vettriceramici has developed high-value hearth color solutions that deliver greater production flexibility, lower manufacturing costs and improved inventory management to customers. The acquisition is expected to improve our growth opportunities by enhancing our product portfolio and improving our position in important growth markets, including the United States, Mexico, Turkey, and Eastern Europe. We expect to achieve favorable synergies and cost reductions. The transaction is expected to close in the fourth quarter of 2014.

## Outlook

For the remainder of 2014, excluding revenue attributable to the Specialty Plastics and Polymer Additives reportable segments, which have both been presented as discontinued operations, and businesses and product lines that were divested in 2013, we expect revenue growth to be approximately flat as compared to the prior year same period. This forecast does not include the revenues of the acquisition of Vetriceramici, which is expected to close during the fourth quarter. We continue to expect the related average gross profit margin to be in the range of 27.0% to 27.5% for the second half of 2014. The improvement in profitability from 2013 is expected to be driven by realization of savings resulting from our restructuring activities, as well as continued efficiency improvements in our manufacturing processes and improved business mix. We anticipate these benefits will more than offset the competitive pressures that we continue to face.

We expect continued improvement in SG&A leverage through the remainder of 2014, driven by realization of savings resulting from our restructuring activities, as well as incremental actions that are targeted at greater efficiency and an improved cost structure.

Factors that could adversely affect our future performance include those described under the heading “Risk Factors” in Item 1A of Part I of our Annual Report on Form 10-K for the year ended December 31, 2013.

Table of Contents

## Results of Operations - Consolidated

## Comparison of the three months ended September 30, 2014 and 2013

For the three months ended September 30, 2014, loss from continuing operations was \$2.6 million, compared with \$9.8 million income from continuing operations for the three months ended September 30, 2013. Net income was \$47.6 million, compared with net income of \$13.0 million for the three months ended September 30, 2013. For the three months ended September 30, 2014, net income attributable to common shareholders was \$47.5 million, or \$0.55 earnings per share, compared with net income attributable to common shareholders of \$12.7 million, or \$0.15 earnings per share, for the three months ended September 30, 2013.

## Net Sales

|  | Three Months Ended<br>September 30, |            | \$ Change   | %<br>Change |
|--|-------------------------------------|------------|-------------|-------------|
|  | 2014                                | 2013       |             |             |
|  | (Dollars in thousands)              |            |             |             |
| Net sales excluding precious metals                        | \$ 264,624                          | \$ 277,004 | \$ (12,380) | (4.5) %     |
| Sales of precious metals                                   | 11,130                              | 21,079     | (9,949)     | (47.2)%     |
| Net sales  | 275,754                             | 298,083    | (22,329)    | (7.5) %     |
| Cost of sales  | 202,950                             | 225,980    | (23,030)    | (10.2)%     |
| Gross profit   | \$ 72,804                           | \$ 72,103  | \$ 701      | 1.0 %       |
| Gross profit as a % of net sales excluding precious metals | 27.5 %                              | 26.0 %     |             |             |

Net sales decreased by \$22.3 million, or 7.5%, in the three months ended September 30, 2014, as compared with the prior-year same period. Net sales excluding precious metals decreased \$12.4 million compared with the prior-year same period, primarily driven by the sale of our North American and Asian metal powders business in 2013 and the exited solar pastes business, which contributed \$8.5 million in net sales excluding precious metals that did not recur in the current year. In our other segments, lower sales in Performance Coatings and in Pigments, Powders and Oxides of \$9.4 million and \$1.4 million, respectively, were partially mitigated by higher sales in Performance Colors and Glass of \$6.9 million. The decline in sales of precious metals was driven by the sale of our North American and Asian metal powders business and exited solar pastes business, which contributed \$11.7 million in precious metals sales that did not recur in the current year. The decline was partially mitigated by higher sales of precious metals in Performance Colors and Glass of \$1.8 million, compared with the prior-year same period.



## Gross Profit

Gross profit increased \$0.7 million, or 1.0%, in the three months ended September 30, 2014, compared to the prior-year same period, and as a percentage of net sales excluding precious metals, it increased 150 basis points to 27.5%. The primary drivers of the change in gross profit were favorable sales volumes and mix, higher pricing and favorable manufacturing costs in Performance Colors and Glass of approximately \$4.9 million, \$0.5 million and \$2.2 million, respectively; favorable manufacturing and raw material costs in Performance Coatings of approximately \$4.4 million and \$2.3 million, respectively; and lower manufacturing and raw material costs costs in Pigments, Powders and Oxides of \$1.6 million and \$0.9 million, respectively. Partially mitigating the declines were continued unfavorable product pricing in Performance Coatings of \$13.1 million, higher raw material costs in Performance Colors and Glass of \$2.4 million and unfavorable sales volumes and mix in Pigments, Powders and Oxides.

Table of Contents

## Geographic Revenues

|   | Three Months Ended<br>September 30, |            |             |             |
|---|-------------------------------------|------------|-------------|-------------|
|   | 2014                                | 2013       | \$ Change   | %<br>Change |
|   | (Dollars in thousands)              |            |             |             |
| Geographic Revenues                       |                                     |            |             |             |
| Europe                                    | \$ 117,965                          | \$ 119,873 | \$ (1,908)  | (1.6) %     |
| United States                             | 61,658                              | 66,725     | (5,067)     | (7.6) %     |
| Asia Pacific                              | 45,960                              | 48,580     | (2,620)     | (5.4) %     |
| Latin America                             | 39,041                              | 41,826     | (2,785)     | (6.7) %     |
| Total net sales excluding precious metals | \$ 264,624                          | \$ 277,004 | \$ (12,380) | (4.5) %     |
| Sale of precious metals                   | 11,130                              | 21,079     | (9,949)     | (47.2)%     |
| Net sales                                 | \$ 275,754                          | \$ 298,083 | \$ (22,329) | (7.5) %     |

The decline in net sales excluding precious metals of \$12.4 million, compared with the prior-year same period, was driven by declines in all regions. The decline in sales in the United States and Asia Pacific was primarily driven by the sale of our North American and Asian metal powders and exited solar pastes businesses, which resulted in a decrease of \$6.4 million and \$2.1 million respectively, in addition to lower sales in Asia Pacific Performance Coatings of \$2.6 million, partially mitigated by higher United States sales within Performance Colors and Glass of \$2.4 million. The decline in Europe compared to the prior-year same period was attributable to lower product pricing in Performance Coatings. The decline in Latin America was due to lower product pricing and unfavorable mix in Performance Coatings, partially offset by higher sales volumes in Performance Colors and Glass.

The follow table presents our sales on the basis of where the sold product was shipped to, as compared to the table above that shows sales on the basis of where the sale originated.

|  | Three Months Ended<br>September 30, |      |           |             |
|--|-------------------------------------|------|-----------|-------------|
|  | 2014                                | 2013 | \$ Change | %<br>Change |
|  | (Dollars in thousands)              |      |           |             |
| Geographic Revenues on a ship to basis |                                     |      |           |             |

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|   |            |            |             |          |
|---|------------|------------|-------------|----------|
| Europe                                    | \$ 116,077 | \$ 122,980 | \$ (6,903)  | (5.6) %  |
| Latin America                             | 55,574     | 56,590     | (1,016)     | (1.8) %  |
| United States                             | 48,141     | 49,296     | (1,155)     | (2.3) %  |
| Asia Pacific                              | 44,832     | 48,138     | (3,306)     | (6.9) %  |
| Total net sales excluding precious metals | \$ 264,624 | \$ 277,004 | \$ (12,380) | (4.5) %  |
| Sale of precious metals                   | 11,130     | 21,079     | (9,949)     | (47.2) % |
| Net sales                                 | \$ 275,754 | \$ 298,083 | \$ (22,329) | (7.5) %  |

Table of Contents

## Selling, General and Administrative Expenses

The following table presents selling, general and administrative expenses attributable to operating sites and regional costs outside the United States together as Performance Materials, and regional costs attributable to the United States and other Corporate costs together as Corporate.

|  | Three Months Ended<br>September 30, |           |            |             |
|--|-------------------------------------|-----------|------------|-------------|
|  | 2014                                | 2013      | \$ Change  | %<br>Change |
|  | (Dollars in thousands)              |           |            |             |
| Performance Materials                        | \$ 33,529                           | \$ 34,963 | \$ (1,434) | (4.1) %     |
| Corporate                                    | 18,187                              | 17,626    | 561        | 3.2 %       |
| Selling, general and administrative expenses | \$ 51,716                           | \$ 52,589 | \$ (873)   | (1.7) %     |

The following table includes SG&A components with significant changes between 2014 and 2013:

|  | Three Months Ended<br>September 30, |           |            |             |
|--|-------------------------------------|-----------|------------|-------------|
|  | 2014                                | 2013      | \$ Change  | %<br>Change |
|  | (Dollars in thousands)              |           |            |             |
| Personnel expenses                           | \$ 27,842                           | \$ 29,463 | \$ (1,621) | (5.5) %     |
| Incentive compensation                       | 3,995                               | 6,966     | (2,971)    | (42.7) %    |
| Stock-based compensation                     | 1,809                               | 1,745     | 64         | 3.7 %       |
| Pension and other postretirement benefits    | (886)                               | (425)     | (461)      | 108.5 %     |
| Bad debt                                     | 362                                 | (89)      | 451        | (506.7) %   |
| All other expenses                           | 18,594                              | 14,929    | 3,665      | 24.5 %      |
| Selling, general and administrative expenses | \$ 51,716                           | \$ 52,589 | \$ (873)   | (1.7) %     |

SG&A expenses were \$0.9 million lower in the three months ended September 30, 2014, compared with the prior-year same period. As a percentage of net sales excluding precious metals, SG&A expenses increased to 19.5%. Significant drivers of the reduction in SG&A expenses were the various restructuring activities executed in 2013 that drove the decrease in personnel expenses and lower incentive compensation that is based on certain performance metrics. Increases in other expenses were attributable to higher professional services fees in the current period.

## Restructuring and Impairment Charges

|                                      | Three Months<br>Ended<br>September 30, |          |            |             |
|--------------------------------------|--|----------|------------|-------------|
|                                      | 2014                                   | 2013     | \$ Change  | %<br>Change |
|                                      | (Dollars in thousands)                 |          |            |             |
| Employee severance                   | \$ 215                                 | \$ 206   | \$ 9       | 4.4 %       |
| Other restructuring costs            | 1,306                                  | 3,356    | (2,050)    | (61.1)%     |
| Restructuring and impairment charges | \$ 1,521                               | \$ 3,562 | \$ (2,041) | (57.3)%     |

Restructuring and impairment charges decreased in the third quarter of 2014 compared with the prior-year same period. Many of our restructuring activities commenced during the first half of 2013, and we had fewer restructuring activities during the third quarter of 2014 as compared with the third quarter of 2013.

Table of Contents

## Interest Expense

|                           | Three Months Ended<br>September 30, |          |            |          |
|---------------------------|-------------------------------------|----------|------------|----------|
|                           | 2014                                | 2013     | \$ Change  | % Change |
|                           | (Dollars in thousands)              |          |            |          |
| Interest expense          | \$ 3,840                            | \$ 4,865 | \$ (1,025) | (21.1) % |
| Amortization of bank fees | 339                                 | 393      | (54)       | (13.7) % |
| Interest capitalization   | (544)                               | (219)    | (325)      | 148.4 %  |
| Interest expense          | \$ 3,635                            | \$ 5,039 | \$ (1,404) | (27.9) % |

Interest expense in the third quarter of 2014 decreased \$1.4 million compared with the prior-year same period due to the retirement of the 7.875% Senior Notes and the refinancing of the 2013 Amended Revolving Credit Facility, and increased interest capitalization related to the addition of manufacturing capacity at our Antwerp plant.

## Income Tax Expense

During the third quarter of 2014, income tax expense was \$4.7 million, compared with income tax expense of \$0.3 million in the prior-year same period. Income tax expense related to continuing operations for the third quarter of 2014, as a percentage of pre-tax income from continuing operations, is higher than the Company's statutory tax rate due to the relative mix of income and losses across various tax jurisdictions and the timing of when that mix of income and loss occurs during the year.

## Results of Operations - Segment Information

Comparison of the three months ended September 30, 2014 and 2013

## Performance Coatings

| Three Months Ended<br>September 30, |      | Change due to |          |       |          |     |          |       |
|-------------------------------------|------|---------------|----------|-------|----------|-----|----------|-------|
| 2014                                | 2013 | \$ Change     | % Change | Price | Volume / | Mix | Currency | Other |

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|  | (Dollars in thousands) |            |            |         |             |          |        |       |
|--|------------------------|------------|------------|---------|-------------|----------|--------|-------|
| Segment net sales                        | \$ 144,900             | \$ 154,238 | \$ (9,338) | (6.1) % | \$ (12,925) | \$ 3,404 | \$ 183 | \$ —  |
| Segment gross profit                     | 31,198                 | 36,826     | (5,628)    | (15.3)% | (13,145)    | 587      | 216    | 6,714 |
| Gross profit as a % of segment net sales | 21.5 %                 | 23.9 %     |            |         |             |          |        |       |

Net sales decreased in Performance Coatings compared with the prior-year same period driven by decreases of \$2.8 million in digital inks, \$2.5 million in porcelain enamels, \$2.2 million in frits and glazes and \$1.2 million in colors. The change in net sales was driven by lower product pricing of \$12.9 million, partially mitigated by higher sales volumes of \$2.7 million and favorable mix of \$0.7 million. The decline in product pricing was significantly influenced by aggressive competitor pricing in the digital inks market and lower raw material costs. Gross profit decreased \$5.6 million from the prior-year same period, and was driven by lower product pricing.

|                             | Three Months Ended<br>September 30, |            |            |          |
|-----------------------------|-------------------------------------|------------|------------|----------|
|                             | 2014                                | 2013       | \$ Change  | % Change |
| Segment net sales by Region | (Dollars in thousands)              |            |            |          |
| Europe                      | \$ 73,683                           | \$ 76,125  | \$ (2,442) | (3.2) %  |
| Latin America               | 31,473                              | 35,824     | (4,351)    | (12.1)%  |
| Asia Pacific                | 26,768                              | 29,319     | (2,551)    | (8.7) %  |
| United States               | 12,976                              | 12,970     | 6          | 0.0 %    |
| Total                       | \$ 144,900                          | \$ 154,238 | \$ (9,338) | (6.1) %  |

Table of Contents

The net sales decrease of \$9.3 million was driven by Europe, Latin America and Asia Pacific, while the United States remained flat. The decline in sales in Europe was primarily attributable to lower sales of our digital inks products. The decline in sales in Latin America was driven by lower sales across all product lines, most significantly in frits and glazes and tile colors. The decline in sales in Asia Pacific is due to lower sales across all product lines due to competitive pressures, as well as the economic slowdown in Indonesia and China.

## Performance Colors and Glass

|   | Three Months Ended     |           | Change due to |        |        |          |          |       |  |
|---|------------------------|-----------|---------------|--------|--------|----------|----------|-------|--|
|   | September 30,          |           | Volume        |        |        |          |          |       |  |
|   | 2014                   | 2013      | \$            | %      | Price  | Mix      | Currency | Other |  |
|   | (Dollars in thousands) |           | Change        | Change |        |          |          |       |  |
| Segment net sales excluding precious metals | \$ 91,970              | \$ 85,077 | \$ 6,893      | 8.1 %  | \$ 376 | \$ 6,594 | \$ (77)  | \$ —  |  |
| Segment precious metal sales                | 10,757                 | 8,982     | 1,775         | 19.8 % |        |          |          |       |  |
| Segment net sales                           | 102,727                | 94,059    | 8,668         | 9.2 %  |        |          |          |       |  |
| Segment gross profit                        | 33,945                 | 28,713    | 5,232         | 18.2 % | 470    | 4,857    | —        | (95)  |  |
| Gross profit as a % of segment net sales    | 36.9 %                 | 33.7 %    |               |        |        |          |          |       |  |

Net sales excluding precious metals increased compared with the prior-year same period, with increases in our automotive, decorative and electronics products, while our industrial products remained relatively flat. Net sales excluding precious metals were impacted by higher sales volumes of \$7.3 million across all major product lines, unfavorable mix of \$0.7 million and higher product pricing of \$0.4 million. Gross profit increased from the prior-year same period primarily due to higher sales volumes of \$4.9 million, favorable product pricing of \$0.5 million, lower manufacturing costs of \$2.2 million, which were partially offset by higher raw material costs of \$2.4 million.

|  | Three Months Ended     |           |        |       |
|--|------------------------|-----------|--------|-------|
|  | September 30,          |           |        |       |
|  | 2014                   | 2013      | \$     | %     |
|  | (Dollars in thousands) |           |        |       |
| Segment net sales excluding precious metals by Region Europe | \$ 38,826              | \$ 38,093 | \$ 733 | 1.9 % |



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|               |           |           |          |      |   |
|---------------|-----------|-----------|----------|------|---|
| United States | 29,868    | 27,475    | 2,393    | 8.7  | % |
| Asia Pacific  | 16,173    | 14,590    | 1,583    | 10.8 | % |
| Latin America | 7,103     | 4,919     | 2,184    | 44.4 | % |
| Total         | \$ 91,970 | \$ 85,077 | \$ 6,893 | 8.1  | % |

The net sales excluding precious metals increase of \$6.9 million was driven by higher sales across all regions. Europe increased slightly, while the increase in sales in the United States was primarily driven by higher sales of electronics products. The increase in sales in Asia Pacific was primarily attributable to higher sales of automotive products, while the increase in sales in Latin America was caused by higher sales of decoration for container glass.

Table of Contents

## Pigments, Powders and Oxides

|   | Three Months Ended<br>September 30, |           | \$ Change   | %<br>Change | Change due to<br>Volume / |          |          |            |
|---|-------------------------------------|-----------|-------------|-------------|---------------------------|----------|----------|------------|
|   | 2014<br>(Dollars in thousands)      | 2013      |             |             | Price                     | Mix      | Currency | Other      |
| Segment net sales<br>excluding precious<br>metals | \$ 27,754                           | \$ 37,689 | \$ (9,935)  | (26.4)%     | \$ (788)                  | \$ (692) | \$ —     | \$ (8,455) |
| Segment precious<br>metal sales                   | 373                                 | 12,097    | \$ (11,724) | (96.9)%     |                           |          |          |            |
| Segment net sales                                 | 28,127                              | 49,786    | (21,659)    | (43.5)%     |                           |          |          |            |
| Segment gross profit                              | 8,285                               | 8,962     | (677)       | (7.6)%      | (800)                     | (1,936)  | —        | 2,059      |
| Gross profit as a % of<br>segment net sales       | 29.85 %                             | 23.78 %   |             |             |                           |          |          |            |

Net sales excluding precious metals decreased compared with the prior-year same period, primarily due to the sale of our North American and Asian metal powders business and exited solar pastes business, which comprised approximately \$8.5 million of the decrease. The remainder of the decrease in net sales excluding precious metals of \$1.4 million was driven by lower sales of our polishing materials, partially mitigated by increased sales of pigments. Lower product pricing of \$0.8 million and unfavorable sales volumes of \$3.5 million were the drivers of the sales decrease, which were partially mitigated by favorable mix of \$2.8 million compared to the prior-year same period. The main driver of the decline of precious metals was mainly attributable to the sale of the metal powders business. Gross profit decreased from the prior-year same period primarily due to lower sales volumes and unfavorable mix of \$1.9 million, lower product pricing of \$0.8 million, partially mitigated by lower raw material costs of \$0.9 million and lower manufacturing costs of \$1.6 million.

|   | Three Months Ended<br>September 30, |           | \$ Change  | %<br>Change |
|---|-------------------------------------|-----------|------------|-------------|
|   | 2014<br>(Dollars in thousands)      | 2013      |            |             |
| Segment net sales excluding precious metals by Region |                                     |           |            |             |
| United States   | \$ 18,814                           | \$ 26,280 | \$ (7,466) | (28.4)%     |
| Europe  | 5,456                               | 5,655     | (199)      | (3.5)%      |
| Asia Pacific  | 3,019                               | 4,671     | (1,652)    | (35.4)%     |
| Latin America   | 465                                 | 1,083     | (618)      | (57.1)%     |

|       |           |           |            |         |
|-------|-----------|-----------|------------|---------|
| Total | \$ 27,754 | \$ 37,689 | \$ (9,935) | (26.4)% |
|-------|-----------|-----------|------------|---------|

The net sales excluding precious metals decrease of \$9.9 million was primarily driven by the United States and Asia Pacific, resulting from the sale of our North American and Asian metal powders business and exiting solar pastes.

#### Comparison of the nine months ended September 30, 2014 and 2013

For the nine months ended September 30, 2014, income from continuing operations was \$21.5 million, compared with \$6.8 million income from continuing operations for the nine months ended September 30, 2013. Net income was \$74.7 million, compared with net income of \$11.6 million for the nine months ended September 30, 2013. For the nine months ended September 30, 2014, net income attributable to common shareholders was \$74.6 million, or \$0.86 earnings per share, compared with net income attributable to common shareholders of \$11.4 million, or \$0.14 earnings per share, for the nine months ended September 30, 2013.

Table of Contents

## Net Sales

|  | Nine Months Ended<br>September 30, |            | \$ Change   | %<br>Change |
|--|------------------------------------|------------|-------------|-------------|
|  | 2014                               | 2013       |             |             |
|  | (Dollars in thousands)             |            |             |             |
| Net sales excluding precious metals                        | \$ 813,742                         | \$ 833,125 | \$ (19,383) | (2.3) %     |
| Sales of precious metals                                   | 36,956                             | 79,613     | (42,657)    | (53.6)%     |
| Net sales  | 850,698                            | 912,738    | (62,040)    | (6.8) %     |
| Cost of sales  | 624,487                            | 701,740    | (77,253)    | (11.0)%     |
| Gross profit   | \$ 226,211                         | \$ 210,998 | \$ 15,213   | 7.2 %       |
| Gross profit as a % of net sales excluding precious metals | 27.8 %                             | 25.3 %     |             |             |

Net sales decreased by \$62.0 million, or 6.8%, in the nine months ended September 30, 2014, as compared with the prior-year same period. Net sales excluding precious metals decreased \$19.4 million, and is largely the result of the sale of our North American and Asian metal powders business and the exit of solar pastes, which contributed \$24.3 million of net sales excluding precious metals in the prior year that did not recur. Additionally, Performance Coatings and Pigments, Powders and Oxides had lower sales of \$5.0 million and \$6.0 million, respectively, which were partially mitigated by higher sales in Performance Colors and Glass of \$15.9 million driven by higher sales volumes and favorable product pricing, partially offset by unfavorable mix. The decrease in precious metal sales was fully attributable to the sale of our North American and Asian metal powders business and the exit of solar pastes.

## Gross Profit

Gross profit increased \$15.2 million, or 7.2%, in the nine months ended September 30, 2014, compared with the prior-year same period. The significant drivers of the higher gross profit was Performance Colors and Glass, which achieved gross profit that was \$16.5 million higher than the prior-year same period resulting from higher sales volumes and favorable mix, favorable product pricing, and favorable manufacturing costs, and our Performance Coatings segment, which achieved gross profit that was \$1.2 million higher than the prior-year same period. These increases were partially offset by lower gross profit in our Pigments, Powders and Oxides segment, driven by unfavorable sales volumes and mix, and the impact of sold businesses and assets.

## Geographic Revenues

|   | Nine Months Ended<br>September 30, |            | \$ Change   | % Change |   |
|---|------------------------------------|------------|-------------|----------|---|
|   | 2014                               | 2013       |             |          |   |
|   | (Dollars in thousands)             |            |             |          |   |
| Geographic Revenues                       |                                    |            |             |          |   |
| Europe                                    | \$ 370,041                         | \$ 368,820 | \$ 1,221    | 0.3      | % |
| United States                             | 184,332                            | 206,925    | (22,593)    | (10.9)   | % |
| Asia Pacific                              | 137,467                            | 137,587    | (120)       | (0.1)    | % |
| Latin America                             | 121,902                            | 119,793    | 2,109       | 1.8      | % |
| Total net sales excluding precious metals | \$ 813,742                         | \$ 833,125 | \$ (19,383) | (2.3)    | % |
| Sale of precious metals                   | 36,956                             | 79,613     | (42,657)    | (53.6)   | % |
| Net sales                                 | \$ 850,698                         | \$ 912,738 | \$ (62,040) | (6.8)    | % |

The decline of \$19.4 million, compared with the prior-year same period, was primarily driven by the United States partially mitigated by an increase in Europe and Latin America. The decline in sales in the United States was largely the result of the sale of our North American and Asian metal powders business, which comprised the majority of the decrease. The higher sales in Europe and Latin America, compared to the prior-year same period, were driven by higher sales volumes within Performance Colors and Glass. While Asia Pacific remained flat, compared to the prior-year same period, there was an increase in value added sales of \$3.9 million, which was fully offset by a decline in sales due to the sale of our North American and Asian metal powders business of \$4.0 million.

Table of Contents

The follow table presents our sales on the basis of where the sold product was shipped to, as compared to the table above that shows sales on the basis of where the sale originated.

|   | Nine Months Ended<br>September 30, |            |             |             |
|---|------------------------------------|------------|-------------|-------------|
|   | 2014                               | 2013       | \$ Change   | %<br>Change |
| (Dollars in thousands)                    |                                    |            |             |             |
| Geographic Revenues on a ship to basis    |                                    |            |             |             |
| Europe                                    | \$ 364,945                         | \$ 374,926 | \$ (9,981)  | (2.7) %     |
| Latin America                             | 161,361                            | 164,473    | (3,112)     | (1.9) %     |
| United States                             | 146,623                            | 154,927    | (8,304)     | (5.4) %     |
| Asia Pacific                              | 140,813                            | 138,799    | 2,014       | 1.5 %       |
| Total net sales excluding precious metals | \$ 813,742                         | \$ 833,125 | \$ (19,383) | (2.3) %     |
| Sale of precious metals                   | 36,956                             | 79,613     | (42,657)    | (53.6)%     |
| Net sales                                 | \$ 850,698                         | \$ 912,738 | \$ (62,040) | (6.8) %     |

## Selling, General and Administrative Expenses

The following table presents selling, general and administrative expenses attributable to operating sites and regional costs outside the United States together as Performance Materials, and regional costs attributable to the United States and other Corporate costs together as Corporate.

|  | Nine Months Ended<br>September 30, |            |             |             |
|--|------------------------------------|------------|-------------|-------------|
|  | 2014                               | 2013       | \$ Change   | %<br>Change |
| (Dollars in thousands)                       |                                    |            |             |             |
| Performance Materials                        | \$ 102,616                         | \$ 112,886 | \$ (10,270) | (9.1) %     |
| Corporate                                    | 49,729                             | 52,585     | (2,856)     | (5.4) %     |
| Selling, general and administrative expenses | \$ 152,345                         | \$ 165,471 | \$ (13,126) | (7.9) %     |

The following table includes SG&A components with significant changes between 2014 and 2013:

|  | Nine Months Ended<br>September 30, |            |             | %        |
|--|------------------------------------|------------|-------------|----------|
|  | 2014                               | 2013       | \$ Change   | Change   |
|  | (Dollars in thousands)             |            |             |          |
| Personnel expenses                           | \$ 82,824                          | \$ 91,263  | \$ (8,439)  | (9.2) %  |
| Incentive compensation                       | 9,209                              | 13,752     | (4,543)     | (33.0) % |
| Stock-based compensation                     | 7,714                              | 4,393      | 3,321       | 75.6 %   |
| Pension and other postretirement benefits    | (2,588)                            | (1,258)    | (1,330)     | 105.7 %  |
| Bad debt                                     | 2,090                              | 1,599      | 491         | 30.7 %   |
| All other expenses                           | 53,096                             | 55,722     | (2,626)     | (4.7) %  |
| Selling, general and administrative expenses | \$ 152,345                         | \$ 165,471 | \$ (13,126) | (7.9) %  |

SG&A expenses were \$13.1 million lower in the nine months ended September 30, 2014, compared with the prior-year same period. As a percentage of net sales excluding precious metals, SG&A expenses decreased 120 basis points from 19.9% in the first nine months of 2013 to 18.7% in the first nine months of 2014. Significant drivers of the reduction in SG&A expenses were various restructuring activities executed in 2013 that decreased personnel expenses and lower incentive compensation that is based on certain performance metrics, partially offset by higher stock-based compensation expense due to higher grants to retirement-eligible employees that require accelerated expense recognition, and the impact of the improved stock price of our liability based awards.

Table of Contents

## Restructuring and Impairment Charges

|                                      | Nine Months Ended<br>September 30, |           |             | %<br>Change |
|--------------------------------------|------------------------------------|-----------|-------------|-------------|
|                                      | 2014                               | 2013      | \$ Change   |             |
|                                      | (Dollars in thousands)             |           |             |             |
| Employee severance                   | \$ 2,467                           | \$ 18,995 | \$ (16,528) | (87.0)%     |
| Other restructuring costs            | 5,362                              | 7,091     | (1,729)     | (24.4)%     |
| Restructuring and impairment charges | \$ 7,829                           | \$ 26,086 | \$ (18,257) | (70.0)%     |

Restructuring and impairment charges decreased significantly compared with the prior-year same period. Many of our restructuring activities commenced during the first half of 2013, thereby driving the higher prior-year charges. We had fewer restructuring activities during the third quarter of 2014 as compared with the third quarter of 2013.

## Interest Expense

|                           | Nine Months Ended<br>September 30, |           |            | %<br>Change |
|---------------------------|------------------------------------|-----------|------------|-------------|
|                           | 2014                               | 2013      | \$ Change  |             |
|                           | (Dollars in thousands)             |           |            |             |
| Interest expense          | \$ 13,084                          | \$ 14,072 | \$ (988)   | (7.0) %     |
| Amortization of bank fees | 1,078                              | 1,885     | (807)      | (42.8) %    |
| Interest capitalization   | (1,343)                            | (614)     | (729)      | 118.7 %     |
| Interest expense          | \$ 12,819                          | \$ 15,343 | \$ (2,524) | (16.5) %    |

Interest expense in the first nine months of 2014 decreased \$2.5 million compared with the prior-year same period. Interest expense was lower in the first nine months of 2014 due to the write-off of deferred financing fees that resulted from amending our revolving credit facility. Additionally, interest expense decreased due to the retirement of the 7.875% Senior Notes, refinancing of the 2013 Amended Credit Facility, and additional interest capitalization related to construction activity at our Antwerp facility.



## Income Tax Expense

During the first nine months of 2014, income tax expense relating to continuing operations was \$12.3 million, compared with \$3.6 million in the prior-year same period. The 2014 and 2013 year-to-date income tax expense related to continuing operations compared to pre-tax income from continuing operations was not significantly different than that which would have resulted from applying the Company's statutory income tax rate.

## Results of Operations - Segment Information

Comparison of the nine months ended September 30, 2014 and 2013

## Performance Coatings

|  | Nine Months Ended<br>September 30, |            | \$ Change  | %<br>Change | Change due to<br>Volume / |           |          |        |
|--|------------------------------------|------------|------------|-------------|---------------------------|-----------|----------|--------|
|  | 2014<br>(Dollars in thousands)     | 2013       |            |             | Price                     | Mix       | Currency | Other  |
| Segment net sales                        | \$ 446,928                         | \$ 451,915 | \$ (4,987) | (1.1) %     | \$ (33,425)               | \$ 22,655 | \$ 5,783 | \$ —   |
| Segment gross profit                     | 102,437                            | 101,260    | 1,177      | 1.2 %       | (33,845)                  | 4,487     | 1,516    | 29,019 |
| Gross profit as a % of segment net sales | 22.9 %                             | 22.4 %     |            |             |                           |           |          |        |

Net sales decreased in Performance Coatings compared with the prior-year same period due to lower sales of our tile frits and glazes, colors and other tile product lines of \$1.0 million, \$4.4 million and \$1.6 million, respectively. Additionally, lower sales of

Table of Contents

porcelain enamels of approximately \$3.2 million contributed to the decline. Partially mitigating the lower sales were in these product lines were higher sales in our digital inks product line, which increased \$5.8 million compared to the prior year same period. Sales were impacted by higher sales volumes of \$16.7 million, favorable mix of \$5.9 million, lower product pricing of \$33.4 million and favorable foreign currency impacts of \$5.8 million. Our product pricing continues to be impacted by competitive pressures in our digital inks product line, which we expect to continue throughout the balance of 2014. Gross profit increased from the prior-year same period, and was driven by favorable sales volumes and mix of \$4.5 million, lower product pricing impacts of \$33.8 million, favorable raw material impacts of \$12.2 million, lower manufacturing costs of \$16.6 million and favorable foreign currency impacts of \$1.5 million.

|                             | Nine Months Ended<br>September 30, |            |            |             |
|-----------------------------|------------------------------------|------------|------------|-------------|
|                             | 2014                               | 2013       | \$ Change  | %<br>Change |
|                             | (Dollars in thousands)             |            |            |             |
| Segment net sales by Region |                                    |            |            |             |
| Europe                      | \$ 227,157                         | \$ 229,516 | \$ (2,359) | (1.0) %     |
| Latin America               | 99,185                             | 100,807    | (1,622)    | (1.6) %     |
| Asia Pacific                | 81,655                             | 82,188     | (533)      | (0.6) %     |
| United States               | 38,931                             | 39,404     | (473)      | (1.2) %     |
| Total                       | \$ 446,928                         | \$ 451,915 | \$ (4,987) | (1.1) %     |

The net sales decrease of \$5.0 million compared with the prior-year same period reflected lower sales in all regions. The decline in sales in Europe was attributable lower sales of our porcelain enamels and frits and glaze products. The decline in sales in Latin America, compared to the prior-year same period, was due to lower sales of our tile color and porcelain enamel products, partially mitigated by higher sales of frits and glaze and digital inks products.

## Performance Colors and Glass

|   | Nine Months Ended<br>September 30, |            |           |             | Change due to<br>Volume / |           |          |       |
|---|------------------------------------|------------|-----------|-------------|---------------------------|-----------|----------|-------|
|   | 2014                               | 2013       | \$ Change | %<br>Change | Price                     | Mix       | Currency | Other |
|   | (Dollars in thousands)             |            |           |             |                           |           |          |       |
| Segment net sales<br>excluding precious | \$ 280,740                         | \$ 264,822 | \$ 15,918 | 6.0 %       | \$ 2,176                  | \$ 11,719 | \$ 2,023 | \$ —  |

metals

|  |         |         |         |         |       |        |     |     |
|--|---------|---------|---------|---------|-------|--------|-----|-----|
| Segment precious metal sales             | 31,386  | 33,811  | (2,425) | (7.2) % |       |        |     |     |
| Segment net sales                        | 312,126 | 298,633 | 13,493  | 4.5 %   |       |        |     |     |
| Segment gross profit                     | 103,669 | 87,203  | 16,466  | 18.9 %  | 2,270 | 12,557 | 900 | 739 |
| Gross profit as a % of segment net sales | 36.9 %  | 32.9 %  |         |         |       |        |     |     |

Net sales excluding precious metals increased compared with the prior-year same period, with increases of \$6.2 million in automotive, \$5.7 million in electronics and \$3.8 million in decoration while the industrial product line remained relatively flat. Net sales excluding precious metals were impacted by higher sales volumes of \$28.1 million, unfavorable mix of \$16.4 million, higher product pricing of \$2.3 million and favorable foreign currency impacts of \$2.0 million. Gross profit increased from the prior-year same period, due to favorable sales volumes and mix of \$12.6 million, higher product pricing impacts of \$2.3 million, higher raw material impacts of \$3.7 million, lower manufacturing costs of \$4.5 million and favorable foreign currency impacts of \$0.9 million.

Table of Contents

|   | Nine Months Ended<br>September 30, |            |           |             |
|---|------------------------------------|------------|-----------|-------------|
|   | 2014                               | 2013       | \$ Change | %<br>Change |
| Segment net sales excluding precious metals by Region | (Dollars in thousands)             |            |           |             |
| Europe  | \$ 125,126                         | \$ 122,675 | \$ 2,451  | 2.0 %       |
| United States   | 89,628                             | 84,337     | 5,291     | 6.3 %       |
| Asia Pacific  | 44,849                             | 42,610     | 2,239     | 5.3 %       |
| Latin America   | 21,137                             | 15,200     | 5,937     | 39.1 %      |
| Total   | \$ 280,740                         | \$ 264,822 | \$ 15,918 | 6.0 %       |

The increase in net sales excluding precious metals of \$15.9 million compared with the prior-year same period reflected higher sales in all regions across most of our product lines.

## Pigments, Powders and Oxides

|   | Nine Months Ended<br>September 30, |            | \$ Change   | %<br>Change | Change due to<br>Volume / |            |          |             |
|---|------------------------------------|------------|-------------|-------------|---------------------------|------------|----------|-------------|
|   | 2014                               | 2013       |             |             | Price                     | Mix        | Currency | Other       |
| Segment net sales<br>excluding precious<br>metals | \$ 86,074                          | \$ 116,388 | \$ (30,314) | (26.0)%     | \$ 12                     | \$ (6,292) | \$ 100   | \$ (24,134) |
| Segment precious<br>metal sales                   | 5,570                              | 45,802     | \$ (40,232) | (87.8)%     |                           |            |          |             |
| Segment net sales                                 | 91,644                             | 162,190    | (70,546)    | (43.5)%     |                           |            |          |             |
| Segment gross profit                              | 22,948                             | 27,450     | (4,502)     | (16.4)%     | —                         | (6,636)    | —        | 2,134       |
| Gross profit as a % of<br>segment net sales       | 26.66 %                            | 23.58 %    |             |             |                           |            |          |             |

Net sales excluding precious metals decreased compared with the prior-year same period, primarily due to the sale of our North American and Asian metal powders business and exit of solar pastes, which comprised approximately \$24.3 million of the decrease. The remainder of the decrease in net sales excluding precious metals of \$6.2 million

was primarily due to lower sales of our surface polishing materials compared with the prior-year same period. Gross profit decreased from the prior-year same period and was a result of exited and sold businesses, which contributed to \$3.5 million of gross profit that did not recur in the current year and lower sales volumes and mix of \$6.6 million, which were partially mitigated by favorable raw material impacts of \$2.0 million and lower manufacturing costs of \$3.8 million.

|   | Nine Months Ended<br>September 30, |            | \$ Change   | %<br>Change |
|---|------------------------------------|------------|-------------|-------------|
|   | 2014                               | 2013       |             |             |
| Segment net sales excluding precious metals by Region | (Dollars in thousands)             |            |             |             |
| United States   | \$ 55,773                          | \$ 83,184  | \$ (27,411) | (33.0)%     |
| Europe  | 17,758                             | 16,629     | 1,129       | 6.8 %       |
| Asia Pacific  | 10,963                             | 12,789     | (1,826)     | (14.3)%     |
| Latin America   | 1,580                              | 3,786      | (2,206)     | (58.3)%     |
| Total   | \$ 86,074                          | \$ 116,388 | \$ (30,314) | (26.0)%     |

The decrease in net sales excluding precious metals of \$30.3 million compared with the prior-year same period was due to lower sales in the United States, Latin America and Asia Pacific, which were partially mitigated by higher sales in Europe. The decline in sales in the United States and Asia Pacific was primarily driven by the sale of our North American and Asian metal powders business which contributed \$24.3 million in the prior year that did not recur. Also, contributing to the decline in the U.S. were lower sales of our polishing materials. Partially mitigating the decline in Asia Pacific were higher sales of our pigments products. Lower sales in Latin America were driven by our pigments products.

Table of Contents

## Summary of Cash Flows for the nine months ended September 30, 2014 and 2013

|  | Nine Months Ended      |          |           |
|--|------------------------|----------|-----------|
|  | September 30,          |          |           |
|  | 2014                   | 2013     | \$ Change |
|  | (Dollars in thousands) |          |           |
| Net cash provided by operating activities                    | \$ 41,900              | \$ 3,003 | \$ 38,897 |
| Net cash provided by investing activities                    | 46,526                 | 12,878   | 33,648    |
| Net cash used for financing activities                       | (18,965)               | (9,664)  | (9,301)   |
| Effect of exchange rate changes on cash and cash equivalents | (2,503)                | 60       | (2,563)   |
| Increase in cash and cash equivalents                        | \$ 66,958              | \$ 6,277 | \$ 60,681 |

Details of net cash provided by operating activities were as follows:

|  | Nine Months Ended      |           |           |
|--|------------------------|-----------|-----------|
|  | September 30,          |           |           |
|  | 2014                   | 2013      | \$ Change |
|  | (Dollars in thousands) |           |           |
| Cash flows from operating activities:                |                        |           |           |
| Net income   | \$ 74,678              | \$ 11,582 | \$ 63,096 |
| Gain on sale of assets and business                  | (50,128)               | (10,686)  | (39,442)  |
| Depreciation and amortization                        | 31,465                 | 38,000    | (6,535)   |
| Restructuring and impairment charges                 | 12,156                 | 4,355     | 7,801     |
| Loss on extinguishment of debt                       | 14,352                 | —         | 14,352    |
| Accounts receivable                                  | 3,195                  | (23,079)  | 26,274    |
| Inventories  | (26,003)               | 12,118    | (38,121)  |
| Accounts payable                                     | 13,234                 | (5,864)   | 19,098    |
| Other changes in current assets and liabilities, net | (7,542)                | (8,363)   | 821       |
| Other adjustments, net                               | (23,507)               | (15,060)  | (8,447)   |
| Net cash provided by operating activities            | \$ 41,900              | \$ 3,003  | \$ 38,897 |

Cash flows from operating activities. Cash flows from operating activities increased by \$38.9 million in the first nine months of 2014 compared with the prior-year same period. The primary drivers of the increase were improved operating results and higher cash flow from working capital. Contributing to the change in cash flows from working capital was a significant increase in inventories at our Antwerp, Belgium facility, which built inventory by \$15.2

million compared with the prior-year same period to facilitate product transition to dibenzoates. Also contributing to the increase in cash flow from operating activities were lower restructuring payments compared to the prior-year same period of \$5.1 million.

Cash flows from investing activities. Cash flows from investing activities increased \$33.6 million in the first nine months of 2014 compared with the prior-year same period. The primary driver of the increase was the net proceeds from the sale of our Specialty Plastics business of \$88.3 million received in the third quarter of 2014. The cash flow from this transaction and other smaller asset sales was \$61.3 million higher than cash flows from divestitures in the first nine months of 2013, during which we divested our pharmaceuticals business and solar assets. Partially offsetting the increased cash flow from the divestitures were higher capital expenditures of \$19.8 million, totaling \$41.0 million in the first nine months of 2014, compared with \$21.2 million in the prior-year same period. The higher capital expenditures were costs incurred for the ongoing project at our Antwerp, Belgium facility and cash payments for the purchase of corporate assets of \$9.2 million in the second quarter of 2014. Additionally, we spent cash of \$6.7 million during the third quarter of 2014 to acquire certain commercial assets of a reseller of our porcelain enamel products in Turkey.

Cash flows from financing activities. Cash flows from financing activities decreased \$9.3 million in the first nine months of 2014 compared with the prior-year same period. As further discussed in Note 5, during the first nine months of 2014 we paid off our 7.875% Senior Notes and entered into a new credit facility, consisting of a \$200 million secured revolving line of credit and a \$300 million secured term loan. Compared to the prior-year same period, net repayments of debt were \$12.2 million, including the redemption premium on the 7.875% Senior Notes of \$10.5 million, which was \$3.2 million higher than net repayments of debt in the

## Table of Contents

first nine months of 2013 of \$9.0 million. Additionally, during the third quarter of 2014 we paid \$6.8 million in debt issuance costs related to the new credit facility entered into during the period.

### Capital Resources and Liquidity

#### 7.875% Senior Notes

In 2010, we issued \$250 million of 7.875% Senior Notes due 2018 (the "Senior Notes"). The Senior Notes were issued at par and bore interest at a rate of 7.875% per year, payable semiannually in arrears on February 15 and August 15 of each year and had a maturity date of August 15, 2018.

In July 2014, the Company commenced a tender offer for all of the Senior Notes at a price of \$1,043.62 per \$1,000.00 principal amount. Approximately \$143.0 million of the Senior Notes were purchased through the tender offer and the remaining \$107.0 million were redeemed subsequent to August 15, 2014 at prices ranging from 100% to 103.938% of the principal amount, in accordance with their terms.

#### Revolving Credit Facility

In 2010, we entered into the Third Amended and Restated Credit Agreement with a group of lenders for a five-year, \$350 million multi-currency senior revolving credit facility, which was amended in March of 2013 (the "2013 Amended Credit Facility") to provide additional operating flexibility. During August of 2014 the 2013 Amended Credit Facility was terminated and repaid in full. In conjunction with the termination, the Company recorded a charge of approximately \$0.9 million, which is included within loss on extinguishment of debt in our condensed consolidated statements of operations for the three and nine months ended September 30, 2014.

#### New Credit Facility

On July 31, 2014, the Company entered into a new credit facility (the "New Credit Facility") with a group of lenders to refinance the majority of its then outstanding debt. The New Credit Facility consists of a \$200 million secured revolving line of credit with a term of five years and a \$300 million secured term loan facility with a term of seven years. The New Credit Facility replaces the prior \$250 million revolving credit facility (described below) and provided funding to repurchase the 7.875% Senior Notes (described below). Subject to certain conditions, the Company can request up to \$200 million of additional commitments under the New Credit Facility, though the lenders are not required to provide such additional commitments. In addition, up to \$100 million of the revolving line of credit will be available to certain of the Company's subsidiaries in the form of revolving loans denominated in Euros.

Certain of the Company's U.S. subsidiaries have guaranteed the Company's obligations under the New Credit Facility and such obligations are secured by (a) substantially all of the personal property of the Company and the U.S. subsidiary guarantors and (b) a pledge of 100% of the stock of most of the Company's U.S. subsidiaries and 65% of most of the stock of the Company's first tier foreign subsidiaries.

**Interest Rate – Term Loan:** The interest rates applicable to the term loans will be, at the Company's option, equal to either a base rate or a London Interbank Offered Rate ("LIBOR") rate plus, in both cases, an applicable margin.



The base rate will be the highest of (i) the federal funds rate plus 0.50%, (ii) PNC's prime rate or (iii) the daily LIBOR rate plus 1.00%.

- The applicable margin for base rate loans is 2.25%.
  - The LIBOR rate will be set as quoted by Bloomberg and shall not be less than 0.75%.
  - The applicable margin for LIBOR rate loans is 3.25%.
  - For LIBOR rate loans, the Company may choose to set the duration on individual borrowings for periods of one, two, three or six months, with the interest rate based on the applicable LIBOR rate for the corresponding duration.
- At September 30, 2014, the Company had borrowed \$300 million under the term loan facility at an annual rate of 4.0%. There were no additional borrowings available under the term loan facility.

Table of Contents

Interest Rate – Revolving Credit Line: The interest rates applicable to loans under the revolving credit line will be, at the Company's option, equal to either a base rate or a LIBOR rate plus an applicable variable margin. The variable margin will be based on the ratio of (a) the Company's total consolidated debt outstanding at such time to (b) the Company's consolidated EBITDA computed for the period of four consecutive fiscal quarters most recently ended.

- The base rate will be the highest of (i) the federal funds rate plus 0.50%, (ii) PNC's prime rate or (iii) the daily LIBOR rate plus 1.00%.
- The applicable margin for base rate loans will vary between 1.50% and 2.00%.
- The LIBOR rate will be set as quoted by Bloomberg for U.S. Dollars.
- The applicable margin for LIBOR Rate Loans will vary between 2.50% and 3.00%.
- For LIBOR rate loans, the Company may choose to set the duration on individual borrowings for periods of one, two, three or six months, with the interest rate based on the applicable LIBOR rate for the corresponding duration.

At September 30, 2014, there were no borrowings under the revolving credit facilities. After reductions for outstanding letters of credit secured by these facilities, we had \$194.7 million of additional borrowings available at September 30, 2014.

The New Credit Facility contains customary restrictive covenants including, but not limited to, limitations on use of loan proceeds, limitations on the Company's ability to pay dividends and repurchase stock, limitations on acquisitions and dispositions, and limitations on certain types of investments. The New Credit Facility also contains standard provisions relating to conditions of borrowing and customary events of default, including the non-payment of obligations by the Company and the bankruptcy of the Company.

Specific to the revolving credit facility, the Company is subject to financial covenants regarding the Company's outstanding net indebtedness and interest coverage ratios.

Under the secured revolving credit facility, we are subject to certain financial covenants. The covenants include requirements for a leverage ratio and an interest coverage ratio as follows:

- With respect to the Revolving Facility only, the Company will not permit the Total Net Debt Leverage Ratio as of the last day of any reference period after the closing date to be greater than 3.75:1.00. In the Total Net Debt Leverage Ratio, the numerator is total debt, which consists of borrowings, letters of credit, the principal amount outstanding on our term loan facility, capitalized lease obligations, and amounts outstanding on our domestic and international receivables sales programs less aggregated unrestricted cash, obligations guaranteed by the United States or a State thereof, certain commercial paper, certain short term certificates of deposit, other corporate debt obligations including, corporate bonds, medium term notes, Eurobonds, floating rate notes and auction rate securities, certain investments in money market funds and other investment approved by the board of directors and by the required lenders. The denominator is the sum of earnings before interest, income taxes, depreciation, and amortization ("EBITDA"), and adjusted for certain special charges over the last four fiscal quarters.
- With respect to the Revolving Facility only, the Company will not permit the Interest Coverage Ratio as of the last day of any reference period after closing to be less than 3.00:1.00. In the interest coverage ratio, the numerator is EBITDA and the denominator is cash paid for interest expense and certain other financing expenses.

Our ability to meet these covenants is impacted by our EBITDA, our total debt, and our interest payments. Our total debt is a result of cash flow items, including net income before amortization, depreciation, and other noncash charges; our cash payments for restructuring; our capital expenditures; requirements for deposits from participants in our precious metals consignment program; our customers' ability to make payments for purchases and the timing of such

payments; and our ability to manage inventory and other working capital items. Our interest payments are driven by our debt level, external fees, and interest rates, primarily the Prime rate and LIBOR. Our capital expenditures are driven by our desire to invest in growth opportunities, to maintain existing property, plant and equipment, and to meet environmental, health and safety requirements.

If an event of default occurs, all amounts outstanding under the New Credit Facility may be accelerated and become immediately due and payable. At September 30, 2014, we were in compliance with the covenants of the New Credit Facility.

## Table of Contents

### Receivable Sales Programs

We had an asset securitization program for Ferro's U.S. trade accounts receivable where we sold undivided variable percentage interests in our domestic receivables to various purchasers, and could obtain up to in the form of cash or letters of credit. Advances received under this program were accounted for as borrowings secured by the receivables and included in net cash provided by financing activities. The purchasers had no recourse to Ferro's other assets for failure of payment of the receivables as a result of the lack of creditworthiness, or financial inability to pay, of the related obligor. The program expired in May 2014 in accordance with its terms and the outstanding debt was repaid at that time.

In 2011, we entered into several international programs to sell with recourse trade accounts receivable to financial institutions. Advances received under these programs are accounted for as borrowings secured by the receivables and included in net cash provided by financing activities. During the fourth quarter of 2013, the international factoring programs expired and were not renewed.

### Off Balance Sheet Arrangements

Consignment and Customer Arrangements for Precious Metals. We use precious metals, primarily silver, in the production of some of our products. We obtain most precious metals from financial institutions under consignment agreements (generally referred to as our precious metals consignment program). The financial institutions retain ownership of the precious metals and charge us fees based on the amounts we consign and the period of consignment. These fees were \$0.2 million and \$0.7 million for the three months ended September 30, 2014 and 2013, respectively, and \$0.7 million and \$2.5 million for the nine months ended September 30, 2014 and 2013, respectively. We had on hand precious metals owned by participants in our precious metals program of \$25.3 million at September 30, 2014, and \$30.8 million at December 31, 2013, measured at fair value based on market prices for identical assets and net of credits.

The consignment agreements under our precious metals program involve short-term commitments that typically mature within 30 to 90 days of each transaction and are typically renewed on an ongoing basis. As a result, the Company relies on the continued willingness of financial institutions to participate in these arrangements to maintain this source of liquidity. On occasion, we have been required to deliver cash collateral. While no deposits were outstanding at September 30, 2014, or December 31, 2013, we may be required to furnish cash collateral in the future based on the quantity and market value of the precious metals under consignment and the amount of collateral-free lines provided by the financial institutions. The amount of cash collateral required is subject to review by the financial institutions and can be changed at any time at their discretion, based in part on their assessment of our creditworthiness.

### Bank Guarantees and Standby Letters of Credit.

At September 30, 2014, the Company and its subsidiaries had bank guarantees and standby letters of credit issued by financial institutions that totaled \$7.3 million. These agreements primarily relate to Ferro's insurance programs, foreign energy purchase contracts and foreign tax payments.

### Other Financing Arrangements

We maintain other lines of credit to provide global flexibility for Ferro's short-term liquidity requirements. These facilities are uncommitted lines for our international operations and totaled \$12.6 million at September 30, 2014. We

had \$10.6 million of additional borrowings available under these lines at September 30, 2014.

#### Liquidity Requirements

Our primary sources of liquidity are available cash and cash equivalents, available lines of credit under the revolving credit facility, and cash flows from operating activities. As of September 30, 2014 we had \$95.3 million of cash and cash equivalents. The majority of our cash and cash equivalents were held by foreign subsidiaries. Cash generated in the U.S. is generally used to pay down amounts outstanding under our revolving credit facility and for general corporate purposes. As of September 30, 2014, our outstanding balance on the revolving credit facility is \$0. If needed, we could repatriate the majority of cash held by foreign subsidiaries without the need to accrue and pay U.S. income taxes. We do not anticipate a liquidity need requiring such repatriation of these funds to the U.S.

## Table of Contents

Our liquidity requirements primarily include debt service, purchase commitments, labor costs, working capital requirements, restructuring expenditures, capital investments, precious metals cash collateral requirements, and postretirement obligations. We expect to meet these requirements in the long term through cash provided by operating activities and availability under existing credit facilities or other financing arrangements. Cash flows from operating activities are primarily driven by earnings before noncash charges and changes in working capital needs. In 2013 and the first nine months of 2014, cash flows from investing and operating activities were used to fund our financing activities. Additionally, we used the proceeds from the new credit facilities and the proceeds from the sale of Specialty Plastics to retire the entire amount of Senior Notes during the third quarter. We had additional borrowing capacity of \$205.3 million at September 30, 2014, and \$246.0 million at December 31, 2013, available under various credit facilities, primarily our revolving credit facility.

Our revolving credit facility subject us to customary financial covenants, including a leverage ratio and an interest coverage ratio. These covenants under our credit facilities restrict the amount of our borrowings, reducing our flexibility to fund ongoing operations and strategic initiatives.

The most critical of these ratios is the leverage ratio for the revolving credit facility. As of September 30, 2014, we were in compliance with our maximum leverage ratio covenant of 3.75x as our actual ratio was 2.15x, providing \$62.0 million of EBITDA cushion on the leverage ratio, as defined within our credit facility. To the extent that economic conditions in key markets deteriorate or we are unable to meet our business projections and EBITDA falls below approximately \$100 million for rolling four quarters, based on reasonably consistent debt levels with those as of December 31, 2013, we could become unable to maintain compliance with our leverage ratio covenant. In such case, our lenders could demand immediate payment of outstanding amounts and we would need to seek alternate financing sources to pay off such debts and to fund our ongoing operations. Such financing may not be available on favorable terms, if at all.

Difficulties experienced in global capital markets could affect the ability or willingness of counterparties to perform under our various lines of credit, forward contracts, and precious metals program. These counterparties are major, reputable, multinational institutions, all having investment-grade credit ratings, except for one, which is not rated. Accordingly, we do not anticipate counterparty default. However, an interruption in access to external financing could adversely affect our business prospects and financial condition.

We assess on an ongoing basis our portfolio of businesses, as well as our financial and capital structure, to ensure that we have sufficient capital and liquidity to meet our strategic objectives. As part of this process, from time to time we evaluate the possible divestiture of businesses that are not critical to our core strategic objectives and, where appropriate, pursue the sale of such businesses and assets, such as sales we completed in 2013 and 2014. We also evaluate and pursue acquisition opportunities that we believe will enhance our strategic position. Generally, we publicly announce divestiture and acquisition transactions only when we have entered into definitive agreements relating to those transactions.

## Critical Accounting Policies and Their Application

There were no material changes to our critical accounting policies described in “Critical Accounting Policies” within Item 7 of our Annual Report on Form 10-K for the year ended December 31, 2013.

## Impact of Newly Issued Accounting Pronouncements

Refer to Note 2 to the condensed consolidated financial statements under Item 1 of this Quarterly Report on Form 10-Q for a discussion of accounting standards we recently adopted or will be required to adopt.

#### Risk Factors

Certain statements contained here and in future filings with the SEC reflect the Company's expectations with respect to future performance and constitute "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These statements are subject to a variety of uncertainties, unknown risks and other factors concerning the Company's operations and business environment, which are difficult to predict and are beyond the control of the Company. Factors that could adversely affect our future financial performance include those described under the heading "Risk Factors" in Item 1A of Part I of our Annual Report on Form 10-K for the year ended December 31, 2013.

Table of Contents

41

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Table of Contents

## Item 3. Quantitative and Qualitative Disclosures About Market Risk

The primary objective of the following information is to provide forward-looking quantitative and qualitative information about our exposure to instruments that are sensitive to fluctuations in interest rates, foreign currency exchange rates, and costs of raw materials and energy.

Our exposure to interest rate risk arises from our debt portfolio. We manage this risk by controlling the mix of fixed versus variable-rate debt after considering the interest rate environment and expected future cash flows. Our objective is to limit variability in earnings, cash flows and overall borrowing costs caused by changes in interest rates, while preserving operating flexibility.

We operate internationally and enter into transactions denominated in foreign currencies. These transactions expose us to gains and losses arising from exchange rate movements between the dates foreign currencies are recorded and the dates they are settled. We manage this risk by entering into forward currency contracts that substantially offset these gains and losses.

The notional amounts, carrying amounts of assets (liabilities), and fair values associated with our exposure to these market risks and sensitivity analysis about potential gains (losses) resulting from hypothetical changes in market rates are presented below:

|   | September<br>30,<br>2014 | December<br>31,<br>2013 |
|---|--------------------------|-------------------------|
|   | (Dollars in thousands)   |                         |
| Variable-rate debt and utilization of accounts receivable sales programs: |                          |                         |
| Change in annual interest expense from 1% change in interest rates        | \$ —                     | \$ 516                  |
| Fixed-rate debt:  |                          |                         |
| Carrying amount   | 300,500                  | 253,617                 |
| Fair value  | 303,504                  | 269,238                 |
| Change in fair value from 1% increase in interest rates                   | (4,028)                  | (10,061)                |
| Change in fair value from 1% decrease in interest rates                   | 4,100                    | 10,546                  |
| Foreign currency forward contracts:                                       |                          |                         |
| Notional amount   | 259,529                  | 244,921                 |
| Carrying amount and fair value  | 7,808                    | (2,255)                 |
| Change in fair value from 10% appreciation of U.S. dollar                 | 14,277                   | 12,867                  |
| Change in fair value from 10% depreciation of U.S. dollar                 | (17,449)                 | (15,727)                |



Table of Contents

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Ferro is committed to maintaining disclosure controls and procedures that are designed to ensure that information required to be disclosed in its Exchange Act reports is recorded, processed, summarized, and reported within the time periods specified in the U.S. Securities and Exchange Commission's rules and forms, and that such information is accumulated and communicated to its management, including its Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

As required by Rule 13a-15(b) of the Exchange Act, Ferro has carried out an evaluation, under the supervision and with the participation of its management, including its Chief Executive Officer and its Chief Financial Officer, of the effectiveness of the design and operation of its disclosure controls and procedures. The evaluation examined those disclosure controls and procedures as of September 30, 2014, the end of the period covered by this report. Based on that evaluation, our Chief Executive Officer and our Chief Financial Officer concluded that the disclosure controls and procedures were effective as of September 30, 2014.

Changes in Internal Control over Financial Reporting

During the third quarter of 2014, there were no changes in our internal control over financial reporting that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

On May 14, 2013, the Committee of Sponsoring Organizations of the Treadway Commission (COSO) issued an updated version of its Internal Control - Integrated Framework (2013 Framework). Originally issued in 1992 (1992 Framework), the framework helps organizations design, implement and evaluate the effectiveness of internal control concepts and simplify their use and application. The 1992 Framework remains available during the transition period, which extends to December 15, 2014, after which time COSO will consider it as superseded by the 2013 Framework. As of September 30, 2014, the Company continues to utilize the 1992 Framework during the transition to the 2013 Framework by the end of 2014.

Table of Contents

## PART II — OTHER INFORMATION

## Item 1. Legal Proceedings

There are various lawsuits and claims pending against the Company and its consolidated subsidiaries. We do not currently expect the resolution of such matters to materially affect the consolidated financial position, results of operations, or cash flows of the Company.

## Item 1A. Risk Factors

There were no material changes to the risk factors disclosed in the Company's Annual Report on Form 10-K for the year ended December 31, 2013.

## Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

Our ability to pay common stock dividends is limited by certain covenants in our Credit Facilities other than dividends payable solely in Capital Securities, as defined in the agreement.

The following table summarizes purchases of our common stock by the Company and affiliated purchasers during the three months ended September 30, 2014:

|   | Total Number<br>of Shares<br>Purchased (1)<br>(In thousands, except for per share amounts) | Average<br>Price<br>Paid per<br>Share | Total Number of<br>Shares Purchased<br>as Part of Publicly<br>Announced Plans<br>or Programs | Maximum<br>Number<br>of Shares<br>that May<br>Yet Be<br>Purchased<br>Under the<br>Plans<br>or<br>Programs |
|---|--|---------------------------------------|--|---|
| July 1, 2014 to July 31, 2014           | —  | \$ —                                  | —  | —   |
| August 1, 2014 to August 30, 2014       | —  | —                                     | —  | —   |
| September 1, 2014 to September 30, 2014 | —  | —                                     | —  | —   |
| Total                                   | —  | —                                     | —  | —   |

(1) Consists of shares of common stock surrendered by employees to meet minimum tax withholding obligations under current and previous long-term incentive plans.

## Item 3. Defaults Upon Senior Securities

Not applicable.

Item 4. Mine Safety Disclosures

Not applicable.

Item 5. Other Information

Not applicable.

Item 6. Exhibits

The exhibits listed in the attached Exhibit Index are the exhibits required by Item 601 of Regulation S-K.

44

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Table of Contents

SIGNATURES

Pursuant to the requirements 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.

FERRO CORPORATION

(Registrant)

Date: October 27, 2014

/s/ Peter T. Thomas  
Peter T. Thomas  
Chairman, President and Chief Executive Officer

(Principal Executive Officer)

Date: October 27, 2014

/s/ Jeffrey L. Rutherford  
Jeffrey L. Rutherford  
Vice President and Chief Financial Officer

(Principal Financial and Accounting Officer)

Table of Contents

EXHIBIT INDEX

The following exhibits are filed with this report or are incorporated here by reference to a prior filing in accordance with Rule 12b-32 under the Securities and Exchange Act of 1934.

Exhibit:

- 2 Plan of acquisition, reorganization, arrangement, liquidation or successor.
- 2.1 Asset Purchase Agreement, dated June 3, 2014, by and among Ferro Corporation, Ferro Spain, S.A., A. Schulman, Inc. and A. Schulman Castellon, S.I.U. (incorporated by reference to Exhibit 2.1 to Ferro Corporations Current Report on Form 8-K filed July 2, 2014).
- 3 Articles of incorporation and by-laws:
  - 3.1 Eleventh Amended Articles of Incorporation of Ferro Corporation (incorporated by reference to Exhibit 4.1 to Ferro Corporation's Registration Statement on Form S 3, filed March 5, 2008).
  - 3.2 Certificate of Amendment to the Eleventh Amended Articles of Incorporation of Ferro Corporation filed December 29, 1994 (incorporated by reference to Exhibit 4.2 to Ferro Corporation's Registration Statement on Form S 3, filed March 5, 2008).
  - 3.3 Certificate of Amendment to the Eleventh Amended Articles of Incorporation of Ferro Corporation filed on June 23, 1998 (incorporated by reference to Exhibit 4.3 to Ferro Corporation's Registration Statement on Form S 3, filed March 5, 2008).
  - 3.4 Certificate of Amendment to the Eleventh Amended Articles of Incorporation of Ferro Corporation filed on October 14, 2011 (incorporated by reference to Exhibit 3.1 to Ferro Corporation's Current Report on Form 8-K, filed October 17, 2011).
  - 3.5 Certificate of Amendment to the Eleventh Amended Articles of Incorporation of Ferro Corporation filed on April 25, 2014.
  - 3.6 Ferro Corporation Amended and Restated Code of Regulations (incorporated by reference to Exhibit 3.1 to Ferro Corporation's current Report on Form 8-K filed May 1, 2014.)
- 4 Instruments defining rights of security holders, including indentures:
  - 4.1 Senior Indenture, dated as of March 5, 2008, by and between Ferro Corporation and U.S. Bank National Association (incorporated by reference to Exhibit 4.5 to Ferro Corporation's Registration Statement on Form S 3, filed March 5, 2008).
  - 4.2 First Supplemental Indenture, dated August 19, 2008, by and between Ferro Corporation and U.S. Bank National Association (with Form of 6.50% Convertible Senior Note due 2013) (incorporated by reference to Exhibit 4.2 to Ferro Corporation's Current Report on Form 8 K, filed August 19, 2008).
  - 4.3 Form of Indenture, by and between Ferro Corporation and Wilmington Trust FSB (incorporated by reference to Exhibit 4.1 to Ferro Corporation's Registration Statement on Form S 3ASR, filed July 27, 2010).
  - 4.4 First Supplemental Indenture, dated August 24, 2010, by and between Ferro Corporation and Wilmington Trust FSB (with Form of 7.875% Senior Notes due 2018) (incorporated by reference to Exhibit 4.1 to Ferro Corporation's Current Report on Form 8 K, filed August 24, 2010).
  - 4.5 Second Supplemental Indenture, dated July 31, 2014, by and between Ferro Corporation and Wilmington Trust, National Association (incorporated by reference to Exhibit 10.1 to Ferro Corporation's current Report on Form 8-K, filed August 5, 2014).

The Company agrees, upon request, to furnish to the U.S. Securities and Exchange Commission a copy of any instrument authorizing long-term debt that does not authorize debt in excess of 10% of the total assets of the Company and its subsidiaries on a consolidated basis.
- 10 Material Contracts:
  - 10.1 Credit Agreement, dated as of July 31, 2014, among Ferro Corporation, the lenders party thereto, PNC Bank, National Association, as the administrative agent, collateral agent and a letter of credit issuer, JPMorgan Chase

Bank N.A., as the syndication agent and as a letter of credit issuer, and the various financial institutions and other persons from time to time party hereto (incorporated by reference to Exhibit 10.1 to Ferro Corporation's current Report on Form 8-K, filed August 5, 2014).

10.2 Sale and Purchase Agreement, dated September 20, 2014, by and among Ferro Corporation, its wholly-owned subsidiary, Ferro Coatings Italy s.r.l., Star Capital SGR S.p.A., Marco Gazzaniga, Gianfranco Padovani and Sergio Zannoni.

31 Certifications:

31.1 Certification of Principal Executive Officer Pursuant to Rule 13a-14(a)/15d-14(a).

31.2 Certification of Principal Financial Officer Pursuant to Rule 13a-14(a)/15d-14(a).

32.1 Certification of Principal Executive Officer Pursuant to 18 U.S.C. 1350.

32.2 Certification of Principal Financial Officer Pursuant to 18 U.S.C. 1350.



Table of Contents

Exhibit:

|         |                                     |
|---------|-------------------------------------|
| 101     | XBRL Documents:                     |
| 101.INS | XBRL Instance Document              |
| 101.SCH | XBRL Schema Document                |
| 101.CAL | XBRL Calculation Linkbase Document  |
| 101.LAB | XBRL Labels Linkbase Document       |
| 101.PRE | XBRL Presentation Linkbase Document |
| 101.DEF | XBRL Definition Linkbase Document   |

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\*Indicates management contract or compensatory plan, contract or arrangement in which one or more Directors and/or executives of Ferro Corporation may be participants.