

Noranda Aluminum Holding CORP
Form 424B7
March 13, 2014
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Filed Pursuant to Rule 424(b)(7)
Registration No. 333-172640

PROSPECTUS SUPPLEMENT

(To prospectus dated March 11, 2011)

10,000,000 Shares

Noranda Aluminum Holding Corporation

Common Stock

The selling stockholders are offering to sell 10,000,000 shares of common stock to the underwriter named below. We will not receive any of the proceeds from the shares of common stock sold by the selling stockholders.

Our common stock is listed on the New York Stock Exchange (the NYSE) under the symbol NOR. The last reported closing sale price of our common stock on March 11, 2014 was \$4.91 per share.

Investing in our common stock involves risk. See the Risk Factors section beginning on page S-4 of this prospectus supplement for a discussion of certain risks you should consider before investing in our common stock.

The underwriter has agreed to purchase the common stock from the selling stockholders at a price of \$4.50 per share, resulting in \$45.0 million in aggregate proceeds, before expenses, to the selling stockholders.

The underwriter may offer the shares of common stock from time to time to purchasers in one or more transactions directly or through agents, or through brokers in brokerage transactions on the NYSE or to dealers in negotiated transactions or in a combination of such methods of sale, at a fixed price or prices, which may be changed, or at market prices prevailing at the time of sale, at prices related to such prevailing market prices or at negotiated prices. See Underwriting.

The underwriter has the option to purchase up to 1,500,000 additional shares from the selling stockholders at a price of \$4.50 per share within 30 days from the date of this prospectus supplement.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The shares will be ready for delivery on or about March 17, 2014.

The date of this prospectus supplement is March 11, 2014.

Morgan Stanley

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ABOUT THIS PROSPECTUS SUPPLEMENT

This document consists of two parts. The first part is the prospectus supplement, which describes the specific terms of the offering. The second part is the prospectus, which describes more general information, some of which may not apply to the offering. You should read both this prospectus supplement and the accompanying prospectus, together with additional information described under the heading "Where You Can Find More Information" in this prospectus supplement and the accompanying prospectus. If the description of the offering varies between this prospectus supplement and the accompanying prospectus, you should rely on the information contained in or incorporated by reference into this prospectus supplement.

When we refer to Noranda, we, our and us in this prospectus, we mean Noranda Aluminum Holding Corporation and our consolidated subsidiaries and Apollo collectively refers to Apollo Management, L.P. and its affiliates, unless the context indicates otherwise. Noranda AcquisitionCo means Noranda Aluminum Acquisition Corporation, a Delaware corporation and wholly owned subsidiary of Noranda HoldCo, excluding its subsidiaries. Noranda HoldCo means Noranda Aluminum Holding Corporation, a Delaware corporation, excluding its subsidiaries. When we refer to the common stock we refer to all shares of our common stock, par value \$0.01 per share, offered pursuant to this prospectus supplement.

You should rely only on the information contained in or incorporated by reference into this prospectus supplement and the accompanying prospectus. This prospectus supplement and the accompanying prospectus may be used only for the purpose for which it has been prepared. No one is authorized to give information other than that contained in or incorporated by reference into this prospectus supplement and the accompanying prospectus. Neither we, the underwriter nor the selling stockholders have authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it.

We are not making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted. You should not assume that the information appearing in this prospectus supplement and the accompanying prospectus or any document incorporated by reference is accurate as of any date other than the date of the applicable document. Our business, financial condition, results of operations and prospects may have changed since that date. Neither this prospectus supplement nor the accompanying prospectus constitutes an offer, or an invitation on our behalf or on behalf of the underwriter or any agents, to subscribe for and purchase any of the securities and may not be used for or in connection with an offer or solicitation by anyone, in any jurisdiction in which such an offer or solicitation is not authorized or to any person to whom it is unlawful to make such an offer or solicitation.

Currency amounts in this prospectus supplement are stated in U.S. dollars.

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MARKET AND INDUSTRY DATA

We obtained the market and certain other data used in this prospectus supplement and the information incorporated by reference herein from our own research, surveys or studies conducted by third parties and industry or general publications, and other publicly available sources. Industry and general publications and surveys generally state that they have obtained information from sources believed to be reliable but do not guarantee the accuracy and completeness of such information. While we believe that each of these studies and publications is reliable, we have not independently verified such data. Similarly, we believe our internal research is reliable, but it has not been verified by any independent sources. As a result, you should be aware that the industry and market data included in this prospectus supplement and the information incorporated by reference herein, and estimates and beliefs based on that data, may not be reliable. We cannot guarantee the accuracy or completeness of any such information.

WHERE YOU CAN FIND MORE INFORMATION

We have filed a Registration Statement on Form S-3 (File No 333-172640) with the SEC regarding the securities offered hereby. This prospectus supplement and the accompanying prospectus, which are part of the registration statement, do not contain all of the information included in the registration statement, and you should refer to the registration statement and its exhibits to read that information. We file annual, quarterly and current reports, proxy statements and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's web site at www.sec.gov and on the investor relations page of our website at www.norandaaluminum.com. Except for those SEC filings incorporated by reference in this prospectus supplement and the accompanying prospectus, none of the other information on our website is part of this prospectus supplement and the accompanying prospectus. You may also read and copy any document we file with the SEC at its public reference facilities at 100 F Street N.E., Washington, D.C. 20549. You can also obtain copies of the documents upon the payment of a duplicating fee to the SEC. Please call the SEC at 1-800-SEC-0330 for further information on the operation of the public reference facilities.

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INFORMATION INCORPORATED BY REFERENCE

The SEC allows us to incorporate by reference into this prospectus supplement much of the information we file with it, which means that we can disclose important information to you by referring you to those publicly available documents. The information that we incorporate by reference is an important part of this prospectus supplement and the accompanying prospectus. Some information contained in this prospectus supplement and the accompanying prospectus updates the information incorporated by reference, and information that we file in the future with the SEC will automatically modify, supersede or update this prospectus supplement and the accompanying prospectus. In other words, in the case of a conflict or inconsistency between information in this prospectus supplement and the accompanying prospectus and/or information incorporated by reference into this prospectus supplement and the accompanying prospectus, you should rely on the information contained in the document that was filed later.

This prospectus supplement incorporates by reference the documents listed below and any filings we make with the SEC under Section 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934 (the Exchange Act) after the initial filing of this prospectus supplement until the termination of the offering under this prospectus supplement:

Our Annual Report on Form 10-K for the fiscal year ended December 31, 2013, filed with the SEC on March 3, 2014;

The information set forth under the captions Executive Officers, Election of Directors, Corporate Governance, Executive Compensation, Director Compensation, Security Ownership of Certain Beneficial Owners and Management and Certain Relationships and Related Party Transactions in our Proxy Statement on Schedule 14A for our 2013 annual meeting of stockholders filed with the SEC on April 22, 2013;

Current Reports on Form 8-K filed on July 24, 2013, October 23, 2013, January 29, 2014, February 13, 2014, February 19, 2014 (Item 8.01 only) and March 11, 2014; and

The description of our common stock contained in our registration statement on Form 8-A, as amended, filed with the SEC on May 11, 2010, including any amendment or report to update such description.

Notwithstanding the foregoing, we are not incorporating any document or information deemed to have been furnished and not filed in accordance with SEC rules.

Documents incorporated by reference are available without charge, excluding any exhibits to those documents, unless the exhibit is specifically incorporated by reference as an exhibit in this document. You can obtain documents incorporated by reference in this document by requesting them in writing or by telephone from us at the following address:

Noranda Aluminum Holding Corporation

801 Crescent Centre Drive, Suite 600

Franklin, Tennessee 37067

Attn: Investor Relations

Telephone: (615) 771-5734

www.norandaaluminum.com/investor

You should rely only on the information contained in or incorporated by reference in this prospectus supplement and the accompanying prospectus. We have not authorized anyone to provide you with different information. We are not making an offer of these securities in any state where the offer is not permitted. You should not assume that the information contained in or incorporated by reference in this prospectus

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supplement and the accompanying prospectus is accurate as of any date other than the date of the applicable document.

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Any statement contained in a document incorporated by reference, or deemed to be incorporated by reference, in this prospectus supplement and the accompanying prospectus shall be deemed to be modified or superseded for purposes of this prospectus supplement and the accompanying prospectus to the extent that a statement contained in this prospectus supplement and the accompanying prospectus or in any other subsequently filed document which also is incorporated by reference in this prospectus supplement and the accompanying prospectus modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus supplement and the accompanying prospectus.

Statements contained in this prospectus supplement or the accompanying prospectus or the documents incorporated by reference herein or therein as to the contents of any contract or other document referred to herein or therein do not purport to be complete, and where reference is made to the particular provisions of such contract or other document, such provisions are qualified in all respects by reference to all of the provisions of such contract or other document. We will provide without charge to each person to whom a copy of this prospectus supplement and the accompanying prospectus has been delivered, on the written or oral request of such person, a copy of any or all of the documents which have been or may be incorporated in this prospectus supplement or the accompanying prospectus by reference (other than exhibits to such documents unless such exhibits are specifically incorporated by reference in any such documents) and a copy of any or all other contracts or documents which are referred to in this prospectus supplement or the accompanying prospectus. You may request a copy of these filings at the address and telephone number set forth above.

In reviewing any agreements incorporated by reference, please remember that they are included to provide you with information regarding the terms of such agreements and are not intended to provide any other factual or disclosure information about Noranda. The agreements may contain representations and warranties by Noranda or other parties, which should not in all instances be treated as categorical statements of fact, but rather as a way of allocating the risk to one of the parties if those statements prove to be inaccurate. The representations and warranties were made only as of the date of the relevant agreement or such other date or dates as may be specified in such agreement and are subject to more recent developments. Accordingly, these representations and warranties alone may not describe the actual state of affairs as of the date they were made or at any other time.

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CAUTIONARY STATEMENT CONCERNING FORWARD-LOOKING STATEMENTS

This prospectus supplement and the accompanying prospectus and the documents incorporated by reference contain forward-looking statements which involve risks and uncertainties. You can identify forward-looking statements because they contain words such as believes, expects, may, should, seeks, approximately, intends, plans, estimates or anticipates or similar expressions that relate to our strategy, plans or intentions. Statements we make relating to our estimated and projected earnings, margins, costs, expenditures, cash flows, growth rates and financial results or to our expectations regarding future industry trends are forward-looking statements. In addition, we, through our senior management, from time to time make forward-looking public statements concerning our expected future operations and performance and other developments. These forward-looking statements are subject to risks and uncertainties that may change at any time, and, therefore, our actual results may differ materially from those that we expected. We derive many of our forward-looking statements from our operating budgets and forecasts, which are based upon many detailed assumptions. While we believe that our assumptions are reasonable, we caution that it is very difficult to predict the impact of known factors, and it is impossible for us to anticipate all factors that could affect our actual results. All forward-looking statements are based upon information available to us on the date of this prospectus supplement.

Important factors that could cause actual results to differ materially from our expectations, which we refer to as cautionary statements, are disclosed under Risk Factors and elsewhere in this prospectus supplement and the accompanying prospectus and our reports filed from time to time with the SEC, which are incorporated by reference into this prospectus supplement and the accompanying prospectus, as the same may be amended, supplemented or superseded from time to time by our filings under the Exchange Act. All forward-looking information in this prospectus supplement and the accompanying prospectus and subsequent written and oral forward-looking statements attributable to us, or to persons acting on our behalf, are expressly qualified in their entirety by the cautionary statements. Some of the factors that we believe could affect our results include:

the cyclical nature of the aluminum industry and fluctuating commodity prices, which cause variability in earnings and cash flows;

a downturn in general economic conditions, including changes in interest rates, as well as a downturn in the end-use markets for certain of our products;

fluctuations in the relative cost of certain raw materials and energy compared to the price of primary aluminum and aluminum rolled products;

the effects of competition in our business lines;

our ability to retain customers, a substantial number of which do not have long-term contractual arrangements with us;

our ability to fulfill our business's substantial capital investment needs;

labor relations (i.e. disruptions, strikes or work stoppages) and labor costs;

unexpected issues arising in connection with our operations outside of the United States;

our ability to retain key management personnel; and

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our expectations with respect to our acquisition activity, or difficulties encountered in connection with acquisitions, dispositions or similar transactions.

We caution you that the foregoing list of important factors may not contain all of the material factors that are important to you. In addition, in light of these risks and uncertainties, the matters referred to in the forward-looking statements contained in this report may not in fact occur. Accordingly, investors should not place undue reliance on those statements. We undertake no obligation to publicly update or revise any forward-looking statement as a result of new information, future events or otherwise, except as otherwise required by law.

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PROSPECTUS SUPPLEMENT SUMMARY

This summary highlights certain information contained elsewhere in this prospectus supplement. Please read the entire prospectus supplement and the accompanying prospectus, including our Annual Report on Form 10-K for the fiscal year ended December 31, 2013, filed with the SEC on March 3, 2014, incorporated by reference herein, and the section entitled "Risk Factors" in this prospectus supplement, the accompanying prospectus and the Annual Report on Form 10-K, before you decide to invest. In addition, this prospectus supplement and the accompanying prospectus and the documents incorporated by reference herein include forward-looking information that involves risks and uncertainties. See "Cautionary Statement Concerning Forward-Looking Statements."

The Company

We are a leading North American integrated producer of value-added primary aluminum and high-quality rolled aluminum coils. We have two businesses: our upstream business and downstream business. Our upstream business is one of the largest U.S. producers of primary aluminum and consists of three reportable segments: Primary Aluminum, Alumina and Bauxite. These three segments are closely integrated and consist of a smelter near New Madrid, Missouri and supporting operations at our bauxite mining operation and alumina refinery. In 2013, New Madrid produced approximately 586 million pounds (266,000 metric tonnes) of primary aluminum, representing approximately 14% of total 2013 U.S. primary aluminum production, based on statistics from CRU. Our downstream business comprises our Flat-Rolled Products segment, which is one of the largest aluminum foil producers in North America, and consists of four rolling mill facilities with a combined maximum annual production capacity of 410 to 495 million pounds, depending on production mix.

Recent Developments

As we previously discussed in connection with our 2013 results, unusually cold and wet weather adversely impacted production at our New Madrid and Gramercy facilities in January and February of 2014. We believe that extraordinary weather production disruptions may result in a \$0.03-0.04 increase in integrated cash cost per pound during the first quarter, as compared to prior expectations. Since the weather disruptions, both facilities have resumed normal operations.

Risk Factors

Participating in this offering involves substantial risk. Our ability to execute our strategy also is subject to certain risks. The risks described under the heading "Risk Factors" immediately following this summary may cause us not to realize the full benefits of our strengths or may cause us to be unable to successfully execute all or part of our strategy. Some of the more significant challenges and risks include the following:

our susceptibility to cyclical fluctuations in the primary aluminum industry and changes in general economic conditions;

the cost of energy and raw materials;

the risk that natural disasters could damage our facilities;

our ability to pass through increases in our costs to our customers;

our indebtedness; and

the highly competitive nature of the industry in which we operate.

Before you participate in this offering, you should carefully consider all the information in this prospectus supplement, the accompanying prospectus and other information incorporated by reference herein, including matters set forth under the heading "Risk Factors."

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Principal Stockholders

Our principal stockholders are investment funds (the Apollo Funds) affiliated with or managed by Apollo Management VI, L.P. (Apollo Management VI), including Apollo Investment Fund VI, L.P. (AIF VI) and its affiliated investment vehicles. The Apollo Funds and Apollo Management VI are affiliates of Apollo Global Management, LLC (together with its subsidiaries, Apollo). Founded in 1990, Apollo is one of the world's largest alternative investment managers, with total assets under management of approximately \$161.2 billion as of December 31, 2013, and a team of 277 investment professionals located in ten offices around the world.

Additional Information

Noranda Aluminum Holding Corporation was incorporated in Delaware on March 27, 2007. The principal executive offices of Noranda Aluminum Holding Corporation are at 801 Crescent Centre Drive, Suite 600, Franklin, TN 37067, and the telephone number there is (615) 771-5700.

We also maintain an Internet site at www.norandaaluminum.com. Our website and the information contained therein or connected thereto shall not be deemed to be incorporated into this prospectus supplement or the accompanying prospectus or the registration statement of which this prospectus supplement forms a part, and you should not rely on any such information in making your decision whether to purchase our securities.

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The Offering

Common stock offered by selling stockholders 10,000,000 shares (11,500,000 shares if the underwriter exercises its option to purchase additional shares in full)

Common stock outstanding 68,244,799 shares as of March 5, 2014

Listing Our common stock is listed on the NYSE under the symbol NOR.

Option The selling stockholders have granted the underwriter an option to purchase up to an additional 1,500,000 shares of common stock from the selling stockholders within 30 days from the date of this prospectus supplement.

Use of proceeds We will not receive any of the proceeds from the sale of shares by the selling stockholders, including any sales pursuant to an exercise of the underwriter's option to purchase additional shares.

Dividends We currently have a policy under which we pay a recurring quarterly dividend on our common stock, subject to the declaration thereof each quarter by our Board of Directors. On February 19, 2014, we declared a regular quarterly cash dividend of \$0.01 per share of common stock, to be paid on March 26, 2014 to shareholders of record as of March 3, 2014. Due to the timing of the sale of shares contemplated by this prospectus supplement and the record date for the dividend, purchasers of shares in the offering will not be entitled to receive the regular quarterly dividend declared on February 19, 2014, regardless of the dates of payment.

Any declaration and payment of future dividends to holders of our common stock may be limited by restrictive covenants of our debt agreements, and will be at the sole discretion of our Board of Directors and will depend on many factors, including our financial condition, earnings, capital requirements, level of indebtedness, statutory and contractual restrictions applying to the payment of dividends and other considerations that our Board of Directors deems relevant. See Dividend Policy.

Risk factors You should carefully read and consider the information set forth under Risk Factors beginning on page S-4 of this prospectus supplement and any risk factors described in the documents we incorporate by reference, as well as all the other information set forth in this prospectus supplement, the accompanying prospectus and in the documents we incorporate by reference, before investing in our common stock.

Except as otherwise indicated, all information in this prospectus supplement assumes no exercise of the underwriter's option to buy up to 1,500,000 additional shares of common stock from the selling stockholders and does not give effect to the vesting of restricted stock and restricted stock units subsequent to March 5, 2014.

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RISK FACTORS

An investment in our common stock involves a high degree of risk. You should carefully consider the risk factors described in Part I, Item 1A, Risk Factors in our Annual Report on Form 10-K for the fiscal year ended December 31, 2013 and our other reports filed from time to time with the SEC, which are incorporated by reference into this prospectus supplement and the accompanying prospectus, as the same may be amended, supplemented or superseded from time to time by our filings under the Exchange Act. Before making any investment decision, you should carefully consider these risks as well as other information we include or incorporate by reference in this prospectus supplement and the accompanying prospectus. The risks and uncertainties described in this prospectus supplement and the documents we incorporate by reference into this prospectus supplement and the accompanying prospectus are not the only ones we face. Additional risks and uncertainties that we are unaware of or that we believe are not material at the time could also materially adversely affect our business, financial condition or results of operations. In any case, the value of our securities could decline, and you could lose all or part of your investment. See also the information contained under the heading Cautionary Statement Regarding Forward-Looking Statements above.

In addition, you should carefully consider the risks related to an investment in our common stock and this offering, as set forth below:

The price of our common stock may fluctuate significantly and you could lose all or part of your investment.

Volatility in the market price of our common stock may prevent you from being able to sell your common stock at or above the price you paid for your common stock. The market price for our common stock could fluctuate significantly for various reasons, including:

our operating and financial performance and prospects;

the price outlook for aluminum;

our quarterly or annual earnings or those of other companies in our industry;

conditions that impact demand for our products and services;

future announcements concerning our business or our competitors' businesses;

the public's reaction to our press releases, other public announcements and filings with the SEC;

changes in earnings estimates or recommendations by securities analysts who track our common stock;

market and industry perception of our success, or lack thereof, in pursuing our growth strategy;

strategic actions by us or our competitors, such as acquisitions or restructurings;

changes in government and environmental regulation;

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general market, economic and political conditions;

changes in accounting standards, policies, guidance, interpretations or principles;

arrival and departure of key personnel;

the number of shares to be publicly traded after this offering;

sales of common stock by us, Apollo or members of our management team;

adverse resolution of new or pending litigation against us;

changes in general market, economic and political conditions in the United States and global economies or financial markets, including those resulting from natural disasters, terrorist attacks, acts of war and responses to such events; and

material weakness in our internal controls over financial reporting.

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In addition, in recent years, the stock market has experienced significant price and volume fluctuations. This volatility has had a significant impact on the market price of securities issued by many companies, including companies in our industry. The changes frequently appear to occur without regard to the operating performance of the affected companies. Hence, the price of our common stock could fluctuate based upon factors that have little or nothing to do with Noranda, and these fluctuations could materially reduce our share price.

Apollo will continue to be able to substantially influence our company and the outcome of all matters voted upon by our shareholders, and to prevent actions which a shareholder may otherwise view favorably.

After the consummation of this offering, Apollo will beneficially own approximately 33.67% of our common stock assuming that the underwriter does not exercise its option to purchase additional shares. Because it will continue to beneficially own greater than 30% of our common stock, Apollo will retain the right to cause the Board of Directors to nominate to our Board of Directors six Apollo designees. In addition, Apollo will retain the right to cause the Board of Directors to nominate to our Board of Directors five Apollo designees so long as Apollo beneficially owns greater than 20% but less than 30% of our common stock, and four Apollo designees so long as Apollo beneficially owns greater than 10% but less than 20% of our common stock. Thus, Apollo will continue to be able to significantly influence or effectively control our decisions.

The interests of Apollo could conflict with or differ from your interests as a holder of our common stock. For example, the concentration of ownership held by Apollo could delay, defer or prevent a change of control of Noranda or impede a merger, takeover or other business combination that you as a stockholder may otherwise view favorably. Additionally, Apollo is in the business of making or advising on investments in companies and holds, and may from time to time in the future acquire interests in, or provide advice to, businesses that directly or indirectly compete with certain portions of our business or are suppliers or customers of ours. Apollo may also pursue acquisitions that may be complementary to our business, and, as a result, those acquisition opportunities may not be available to us. A sale of a substantial number of shares of stock in the future by funds affiliated with Apollo could cause our stock price to decline.

Any declaration and payment of future dividends to holders of our common stock is limited by restrictive covenants of our debt agreements, and will be at the sole discretion of our Board of Directors and will also depend on many factors.

Any declaration and payment of future dividends to holders of our common stock is limited by restrictive covenants of our debt agreements, and will be at the sole discretion of our Board of Directors and will depend on many factors, including our financial condition, earnings, capital requirements, level of indebtedness, statutory and contractual restrictions applying to the payment of dividends and other considerations that our Board of Directors deems relevant.

The terms of our senior secured credit facilities and the indenture governing Noranda AcquisitionCo's notes may restrict the ability of Noranda HoldCo's subsidiaries to pay dividends to Noranda HoldCo. Given that Noranda HoldCo has no direct operations and no significant assets other than ownership of 100% of the stock of Noranda AcquisitionCo, these restrictions in turn may restrict our ability to pay dividends on our common stock. Furthermore, we are permitted under the terms of our debt agreements to incur additional indebtedness that may further restrict or prohibit the payment of dividends. The agreements governing our current and future indebtedness may not permit us to pay dividends on our common stock. See Dividend Policy.

Future sales or the possibility of future sales of a substantial amount of our common stock may depress the price of shares of our common stock.

Future sales or the availability for sale of substantial amounts of our common stock in the public market could adversely affect the prevailing market price of our common stock and could impair our ability to raise capital through future sales of equity securities.

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Our certificate of incorporation authorizes us to issue 200,000,000 shares of common stock, of which 68,244,799 are outstanding. This number includes 23,000,000 shares that were sold in connection with our initial public offering and our follow-on offering, the 10,000,000 shares that were sold by Apollo in connection with a prior public offering by Apollo and the 10,000,000 shares offered in this offering, which are freely transferable without restriction or further registration under the Securities Act of 1933, as amended, which we refer to throughout this prospectus supplement as the Securities Act, except for any shares which may be acquired by any of our affiliates as that term is defined in Rule 144 under the Securities Act, which will be subject to the resale limitations of Rule 144. The remaining 25,244,799 shares of our common stock outstanding (other than a small amount of shares sold from vested equity awards by our employees in market transactions since our initial public offering), including the shares of common stock that remain owned by Apollo, will be restricted securities, as that term is defined in Rule 144 under the Securities Act, and we and Apollo have also agreed with the underwriter not to sell any shares for a period of 45 days from the date of this prospectus supplement, pursuant to lock-up agreements. See Underwriting. Following the expiration of the applicable lock-up period, all these shares of our common stock will be eligible for resale under Rule 144 or Rule 701 of the Securities Act, subject to volume limitations and applicable holding period requirements. In addition, Apollo will have the ability to cause us to register the resale of their shares, and our management members who hold shares will have the ability to include their shares in the registration. See Shares Eligible for Future Sale for a discussion of the shares of our common stock that may be sold into the public market in the future.

We may issue shares of our common stock or other securities from time to time as consideration for future acquisitions and investments. If any such acquisition or investment is significant, the number of shares of our common stock, or the number or aggregate principal amount, as the case may be, of other securities that we may issue may in turn be substantial. We may also grant registration rights covering those shares of our common stock or other securities in connection with any such acquisitions and investments.

As of the date of this prospectus supplement, there are 3.3 million shares of our common stock issuable upon the exercise of outstanding stock options or the vesting of restricted stock and restricted stock units, including 1.2 million stock options which are vested and exercisable.

We cannot predict the size of future issuances of our common stock or the effect, if any, that future issuances and sales of our common stock will have on the market price of our common stock. Sales of substantial amounts of our common stock (including shares of our common stock issued in connection with an acquisition), or the perception that such sales could occur, may adversely affect prevailing market prices for our common stock.

Delaware law and our organizational documents may impede or discourage a takeover, which could deprive our investors of the opportunity to receive a premium for their shares.

We are a Delaware corporation, and the anti-takeover provisions of Delaware law impose various impediments to the ability of a third party to acquire control of us, even if a change of control would be beneficial to our existing stockholders. In addition, provisions of our amended and restated certificate of incorporation and bylaws may make it more difficult for, or prevent a third party from, acquiring control of us without the approval of our Board of Directors. These provisions include:

the ability of our Board of Directors to designate one or more series of preferred stock and issue shares of preferred stock without stockholder approval;

a classified Board of Directors;

the sole power of a majority of the Board of Directors to fix the number of directors;

limitations on the removal of directors;

the sole power of our Board of Directors to fill any vacancy on our board, whether such vacancy occurs as a result of an increase in the number of directors or otherwise; and

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advance notice requirements for nominating directors or introducing other business to be conducted at stockholder meetings.

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The foregoing factors, as well as the significant common stock ownership by our equity sponsor, could impede a merger, takeover or other business combination or discourage a potential investor from making a tender offer for our common stock, which, under certain circumstances, could reduce the market value of our common stock. See "Description of Capital Stock" in the accompanying prospectus.

We may issue shares of preferred stock in the future, which could make it difficult for another company to acquire us or could otherwise adversely affect holders of our common stock, which could depress the price of our common stock.

Our certificate of incorporation authorizes us to issue up to 25,000,000 shares of one or more series of preferred stock. Our Board of Directors has the authority to determine the preferences, limitations and relative rights of shares of preferred stock and to fix the number of shares constituting any series and the designation of such series, without any further vote or action by our stockholders. Our preferred stock could be issued with voting, liquidation, dividend and other rights superior to the rights of our common stock. The potential issuance of preferred stock may delay or prevent a change in control of us, discouraging bids for our common stock at a premium over the market price, and materially and adversely affect the market price and the voting and other rights of the holders of our common stock.

Noranda HoldCo is a holding company and relies on dividends and other payments, advances and transfers of funds from its subsidiaries to meet its dividend and other obligations.

Noranda HoldCo has no direct operations and no significant assets other than ownership of 100% of the stock of Noranda AcquisitionCo and its indirect ownership of 100% of Noranda Aluminum, Inc. Because Noranda HoldCo conducts its operations through its subsidiaries, Noranda HoldCo depends on those entities for dividends and other payments to generate the funds necessary to meet its financial obligations, and to pay any dividends with respect to our common stock. Legal and contractual restrictions in the senior secured credit facilities, the indenture governing Noranda AcquisitionCo's Notes and other agreements governing current and future indebtedness of Noranda HoldCo's subsidiaries, as well as the financial condition and operating requirements of Noranda HoldCo's subsidiaries, may limit Noranda HoldCo's ability to obtain cash from its subsidiaries. The earnings from, or other available assets of, Noranda HoldCo's subsidiaries may not be sufficient to pay dividends or make distributions or loans to enable Noranda HoldCo to pay any dividends on our common stock.

Table of Contents**USE OF PROCEEDS**

We will not receive any proceeds from the sale of shares of our common stock by the selling stockholders identified in this prospectus supplement. The selling stockholders will receive all of the net proceeds from the sale of their shares of our common stock. See Selling Stockholders.

DIVIDEND POLICY

We currently have a policy under which we pay a recurring quarterly dividend on our common stock, subject to the declaration thereof each quarter by our Board of Directors. On February 19, 2014, we declared a regular quarterly cash dividend of \$0.01 per share of common stock, to be paid on March 26, 2014 to shareholders of record as of March 3, 2014. Due to the timing of the sale of shares contemplated by this prospectus supplement and the record date for the dividend, purchasers of shares in the offering will not be entitled to receive the regular quarterly dividend declared on February 19, 2014, regardless of the dates of payment.

Any declaration and payment of future dividends to holders of our common stock will be at the discretion of our Board of Directors and will depend on many factors, including our financial condition, earnings, capital requirements, level of indebtedness, statutory and contractual restrictions applying to the payment of dividends and other considerations that our Board of Directors deems relevant. Under Delaware law, dividends may be payable only out of surplus, which is our net assets minus our liabilities and our capital, or, if we have no surplus, out of our net profits for the fiscal year in which the dividend is declared and/or the preceding fiscal year.

In addition, the covenants of our existing senior secured credit facilities and the indenture governing Noranda AcquisitionCo's notes may limit the ability of Noranda HoldCo's subsidiaries to pay dividends to Noranda HoldCo, which in turn may limit our ability to pay dividends on our common stock. See Management's Discussion and Analysis of Financial Condition and Results of Operations Contractual Obligations and Contingencies, and Management's Discussion and Analysis of Financial Condition and Results of Operations Description of Certain Indebtedness included in our Annual Report on Form 10-K for the year ended December 31, 2013, which is incorporated by reference herein.

PRICE RANGE OF COMMON STOCK

Our common stock began trading on the NYSE under the symbol NOR following our initial public offering in May 2010. Before then, there was no public market for our common stock. The following table sets forth, for the periods indicated, the high and low sales prices of our common stock as reported by the NYSE:

	High	Low
First quarter 2012	\$ 13.18	\$ 8.01
Second quarter 2012	\$ 10.95	\$ 6.29
Third quarter 2012	\$ 8.02	\$ 5.73
Fourth quarter 2012	\$ 6.97	\$ 5.38
First quarter 2013	\$ 6.82	\$ 4.00
Second quarter 2013	\$ 4.55	\$ 3.18
Third quarter 2013	\$ 3.53	\$ 2.46
Fourth quarter 2013	\$ 3.39	\$ 2.21
First quarter 2014 (through March 11, 2014)	\$ 5.08	\$ 2.86

On March 11, 2014, the closing price as reported by the NYSE of our common stock was \$4.91 per share.

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The following table sets forth (i) the selling stockholders, (ii) the number of shares of common stock that the selling stockholders beneficially owned before this offering, (iii) the number of shares of common stock to be sold in this offering by the selling stockholders and (iv) the number of shares of our common stock that will be beneficially owned by the selling stockholders after this offering. The following table assumes no exercise of the underwriter's option to buy up to 1,500,000 additional shares of common stock from the selling stockholders. The number of shares of our common stock outstanding as of March 5, 2014 was 68,244,799.

The amounts and percentage of common stock beneficially owned are reported on the basis of regulations of the SEC governing the determination of beneficial ownership of securities. Under the rules of the SEC, a person is deemed to be a beneficial owner of a security if that person has or shares voting power, which includes the power to vote or to direct the voting of such security, or investment power, which includes the power to dispose of or to direct the disposition of such security. A person is also deemed to be a beneficial owner of any securities of which that person has a right to acquire beneficial ownership within 60 days. Under these rules, more than one person may be deemed a beneficial owner of the same securities and a person may be deemed a beneficial owner of securities as to which he or she has no economic interest. The number of shares of common stock outstanding used in calculating the percentage for each listed person includes the shares of common stock underlying options or warrants held by such person that are exercisable within 60 days after March 5, 2014, but excludes shares of common stock underlying options or warrants held by any other person.

Except as indicated by footnote, the persons named in the table below have sole voting and investment power with respect to all shares of common stock shown as beneficially owned by them.

Name of Beneficial Owner	Shares Beneficially Owned Before the Offering ⁽¹⁾		Number of Shares to be sold in the Offering	Shares Beneficially Owned After the Offering ⁽¹⁾		Shares Beneficially Owned After the Offering (assuming full exercise of the underwriter's option to purchase additional shares)	
	Shares	%		Shares	%	Shares	%
Apollo Funds ⁽²⁾	32,980,000	48.3%	10,000,000	22,980,000	33.7%	21,480,000	31.5%

- (1) Applicable percentage of ownership is based on 68,244,799 shares of our common stock outstanding as of March 5, 2014. Beneficial ownership is determined in accordance with rules of the Securities and Exchange Commission and means voting or investment power with respect to securities. Shares of our common stock issuable upon the exercise of stock options exercisable currently or within 60 days of March 5, 2014 are deemed outstanding and to be beneficially owned by the person holding such option for purposes of computing such person's percentage ownership, but are not deemed outstanding for the purpose of computing the percentage ownership of any other person.
- (2) Represents all equity interests in Noranda HoldCo held of record by Apollo Investment Fund VI, L.P. (AIF VI) and Noranda Holdings, L.P. (Holdings LP, and together with AIF VI, the Apollo Funds). Also includes an aggregate of 140,000 shares issuable upon the exercise of outstanding options, issued to Apollo Management VI, L.P. (Apollo Management VI) and Apollo Alternative Assets, L.P. (Alternative Assets). Apollo Advisors VI, L.P. (Advisors VI) is the general partner of AIF VI, and Apollo Capital Management VI, LLC (ACM VI) is the general partner of Advisors VI. Apollo Principal Holdings I, L.P. (Apollo Principal) is the sole member of ACM VI and Apollo Principal Holdings, I GP, LLC (Apollo Principal GP) is the general partner of Apollo Principal. Noranda Holdings LLC (Holdings LLC) is the general partner of Holdings LP. Apollo Management VI serves as the investment manager of AIF VI and of Holdings LLC. AIF VI Management, LLC (AIF VI Management) is the general partner of Apollo Management VI, Apollo Management, L.P. (Apollo Management) is the sole member and manager of AIF VI Management, and Apollo Management GP, LLC (Apollo Management GP) is the general partner

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of Apollo Management. Apollo International Management, L.P. (AIM LP) is the managing general partner of Alternative Assets, and Apollo International Management GP, LLC (International Management GP) is the general partner of AIM LP. Apollo Management Holdings, LP (AMH) is the sole member and manager of Apollo Management GP and International Management GP. Apollo Management Holdings GP, LLC (AMH GP) is the general partner of AMH. Leon Black, Joshua Harris and Marc Rowan are the managers of Apollo Principal GP, and the managers, as well as executive officers, of AMH GP, and as such may be deemed to have voting and dispositive control over the shares of Noranda HoldCo held by the Apollo Funds or beneficially owned by Apollo Management VI or Alternative Assets. Each of Apollo Management VI, Alternative Assets, Advisors VI, ACM VI, Apollo Principal, Apollo Principal GP, Holdings LLC, AIF VI Management, Apollo Management, Apollo Management GP, AIM LP, International Management GP, AMH and AMH GP (collectively, the Apollo Entities), and Messrs. Black, Harris and Rowan, disclaims beneficial ownership of all shares of Noranda HoldCo held by the Apollo Funds or beneficially owned by Apollo Management VI or Alternative Assets, except to the extent of any pecuniary interest therein. The address of AIF VI, Advisors VI, ACM VI, Apollo Principal and Apollo Principal GP is One Manhattanville Road, Suite 201, Purchase, New York 10577. The address of Apollo Management VI, AIF VI Management, AMH, AMH GP, Apollo Management, Apollo Management GP, AIM LP and International Management GP is 9 West 57th Street, 43rd Floor, New York, NY 10019. The address of Alternative Assets is c/o Intertrust Corporate Services (Cayman) Limited, 190 Elgin Street, George Town, Grand Cayman KY1-9005, Cayman Islands.

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SHARES ELIGIBLE FOR FUTURE SALE

No predictions can be made about the effect, if any, that market sales of shares of our common stock or the availability of such shares for sale will have on the market price prevailing from time to time. Nevertheless, the actual sale of, or the perceived potential for the sale of, our common stock in the public market may have an adverse effect on the market price for the common stock and could impair our ability to raise capital through future sales of our securities. See **Risk Factors** Future sales or the possibility of future sales of a substantial amount of our common stock may depress the price of shares of our common stock.

Sale of Restricted Shares

We have an aggregate of 68,244,799 shares of our common stock outstanding. Of these shares, the 23,000,000 shares that were sold in connection with our initial public offering and our follow-on offering, the 10,000,000 shares that were sold by Apollo in a prior public offering and the 10,000,000 shares of our common stock (11,500,000 shares of our common stock if the underwriter exercises its option to purchase additional shares in full) to be sold in this offering will be freely tradable without restriction or further registration under the Securities Act, except for any shares which may be acquired by any of our affiliates as that term is defined in Rule 144 under the Securities Act, which will be subject to the resale limitations of Rule 144. The remaining 25,244,799 (other than a small amount of shares sold from vested equity awards by our employees in market transactions since our initial public offering) shares of our common stock outstanding will be restricted securities, as that term is defined in Rule 144, and may in the future be sold without restriction under the Securities Act to the extent permitted by Rule 144 or any applicable exemption under the Securities Act.

We have granted Apollo demand and incidental registration rights with respect to the 22,980,000 shares of our common stock beneficially owned by it after this offering, and have granted certain members of our management members incidental registration rights with respect to the 0.3 million shares of our common stock owned by them. See **Certain Relationships and Related Party Transactions** incorporated by reference into this prospectus supplement from our Proxy Statement for our Annual Meeting of Stockholders on May 9, 2013, filed with the SEC on April 22, 2013.

Equity Incentive Plan

We have registered on a registration statement on Form S-8 under the Securities Act with the SEC 8.1 million shares of our common stock issued or reserved for issuance under our long-term incentive plans. As of the date of this prospectus supplement, there are 5.4 million shares of our common stock subject to outstanding equity compensation awards under these plans, of which 3.3 million shares are issuable upon the exercise of outstanding stock options or the vesting of restricted stock and restricted stock units. Following the completion of any vesting periods, shares of our common stock issuable upon the exercise of outstanding stock options or the vesting of restricted stock and restricted stock units, will be freely tradable without restriction under the Securities Act, unless such shares are held by any of our affiliates.

Lock-up Agreements

We and Apollo have agreed with the underwriter not to sell any shares of our common stock for a period of 45 days from the date of this prospectus supplement, subject to certain exceptions. See **Underwriting** for a description of these lock-up provisions.

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MATERIAL UNITED STATES FEDERAL INCOME TAX CONSIDERATIONS FOR NON-U.S. HOLDERS

The following is a general discussion of material U.S. federal income tax considerations with respect to the ownership and disposition of our common stock applicable to non-U.S. holders who acquire such shares in this offering. This discussion is based on current provisions of the Internal Revenue Code of 1986, as amended (the Code), U.S. Treasury regulations promulgated thereunder, and administrative rulings and court decisions in effect as of the date hereof, all of which are subject to change at any time, possibly with retroactive effect.

For purposes of this discussion, the term non-U.S. holder means a beneficial owner of our common stock that is not, for U.S. federal income tax purposes, a partnership or any of the following:

a citizen or resident of the United States;

a corporation created or organized in the United States or under the laws of the United States, any state thereof or the District of Columbia;

an estate, the income of which is includible in gross income for U.S. federal income tax purposes regardless of its source; or

a trust if (1) a court within the United States is able to exercise primary supervision over the administration of the trust and one or more U.S. persons have the authority to control all substantial decisions of the trust, or (2) it has a valid election in effect under applicable U.S. Treasury regulations to be treated as a U.S. person for U.S. federal income tax purposes.

If an entity or arrangement treated as a partnership for U.S. federal income tax purposes holds shares of our common stock, the tax treatment of a person treated as a partner generally will depend on the status of the partner and the activities of the partnership. Persons that for U.S. federal income tax purposes are treated as a partner in a partnership holding shares of our common stock should consult their tax advisors.

This discussion assumes that a non-U.S. holder holds shares of our common stock as a capital asset within the meaning of Section 1221 of the Code (generally, property held for investment). This discussion does not address all aspects of U.S. federal income taxation that may be important to a non-U.S. holder in light of that holder's particular circumstances or that may be applicable to holders subject to special treatment under U.S. federal income tax law (including, for example, financial institutions, brokers or dealers in securities, traders in securities that elect mark-to-market treatment, insurance companies, tax-exempt entities or accounts, non-U.S. holders who acquired our common stock pursuant to the exercise of employee stock options or otherwise as compensation, entities or arrangements treated as partnerships for U.S. federal income tax purposes, non-U.S. holders liable for the alternative minimum tax, certain former citizens or former long-term residents of the United States, controlled foreign corporations or passive foreign investment companies, a non-U.S. holder that at any time owns, directly, indirectly or constructively, 5% or more of our outstanding common stock and non-U.S. holders who hold our common stock as part of a hedge, wash sale, straddle, constructive sale or conversion transaction). In addition, this discussion does not address U.S. federal tax laws other than those pertaining to the U.S. federal income tax, nor does it address any aspects of the unearned income Medicare contribution tax pursuant to the Health Care and Education Reconciliation Act of 2010, or U.S. state or local or non-U.S. taxes. Accordingly, prospective investors should consult with their own tax advisors regarding the U.S. federal, state, local, non-U.S. income and other tax considerations of acquiring, holding and disposing of shares of our common stock.

THIS SUMMARY IS NOT INTENDED TO CONSTITUTE A COMPLETE DESCRIPTION OF ALL TAX CONSEQUENCES RELATING TO THE OWNERSHIP AND DISPOSITION OF OUR COMMON STOCK. WE RECOMMEND THAT PROSPECTIVE NON-U.S. HOLDERS OF OUR COMMON STOCK CONSULT WITH THEIR TAX ADVISORS REGARDING THE TAX CONSEQUENCES TO THEM (INCLUDING THE APPLICATION AND EFFECT OF ANY U.S. STATE OR LOCAL OR NON-U.S. INCOME AND OTHER TAX LAWS) OF THE OWNERSHIP AND DISPOSITION OF OUR COMMON STOCK.

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Dividends

In general, any distributions we make to a non-U.S. holder with respect to its shares of our common stock that constitute dividends for U.S. federal income tax purposes will be subject to U.S. withholding tax at a rate of 30% of the gross amount (or a reduced rate prescribed by an applicable income tax treaty) unless the dividends are effectively connected with a trade or business carried on by the non-U.S. holder within the United States (and, if an income tax treaty applies, are attributable to a permanent establishment of the non-U.S. holder within the United States). A distribution will constitute a dividend for U.S. federal income tax purposes to the extent of our current or accumulated earnings and profits as determined for U.S. federal income tax purposes. Any distribution not constituting a dividend will be treated first as a tax-free return of capital, reducing the adjusted basis of the non-U.S. holder in its shares of our common stock and, to the extent the distribution exceeds the adjusted basis of the non-U.S. holder in its shares of our common stock, as gain from the sale or exchange of such shares, which gain would be subject to the treatment described below under **Gain on Sale or Other Disposition of Our Common Stock**.

Dividends effectively connected with a U.S. trade or business (and, if an income tax treaty applies, attributable to a U.S. permanent establishment) of a non-U.S. holder generally will not be subject to U.S. withholding tax if the non-U.S. holder complies with applicable certification and disclosure requirements. Instead, such dividends generally will be subject to U.S. federal income tax on a net income basis, in the same manner as if the non-U.S. holder were a resident of the United States. A non-U.S. holder that is a corporation may be subject to an additional **branch profits tax** at a rate of 30% (or such lower rate as may be specified by an applicable income tax treaty) on the repatriation from the United States of its effectively connected earnings and profits, subject to certain adjustments.

In order to claim the benefit of an applicable income tax treaty, a non-U.S. holder will be required to provide to the applicable withholding agent a properly executed IRS Form W-8BEN (or other applicable form) in accordance with the applicable certification and disclosure requirements.

Gain on Sale or Other Disposition of Our Common Stock

In general, a non-U.S. holder will not be subject to U.S. federal income tax, subject to the discussion below under the heading **Information Reporting and Backup Withholding**, on any gain realized upon the sale or other disposition of our common stock unless:

the gain is effectively connected with a trade or business carried on by the non-U.S. holder within the United States (in which case the branch profits tax discussed above may also apply if the non-U.S. holder is a corporation) and, if required by an applicable income tax treaty, is attributable to a U.S. permanent establishment of the non-U.S. holder;

the non-U.S. holder is an individual and is present in the United States for 183 days or more in the taxable year of disposition and certain other conditions are satisfied; or

we are or have been a U.S. real property holding corporation (a **USRPHC**) for U.S. federal income tax purposes at any time within the shorter of the five-year period ending on the date of the disposition and the non-U.S. holder's holding period and certain other conditions are satisfied. We believe that we currently are not, and we do not anticipate becoming, a USRPHC.

Information Reporting and Backup Withholding

We must report annually to the Internal Revenue Service and to each non-U.S. holder the amount of dividends paid to, and the tax withheld with respect to, each non-U.S. holder. These reporting requirements apply regardless of whether withholding was reduced or eliminated by an applicable tax treaty. Copies of this information also may be made available under the provisions of a specific treaty or agreement with the tax authorities in the country in which the non-U.S. holder resides or is established.

U.S. backup withholding tax (currently at a rate of 28%) is imposed on certain payments to persons that fail to furnish the information required under the U.S. information reporting rules. Dividends paid to a non-U.S. holder generally will be exempt from backup withholding if the non-U.S. holder provides a properly executed IRS Form W-8BEN or otherwise establishes an exemption.

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Under U.S. Treasury regulations, the payment of proceeds from the disposition of our common stock by a non-U.S. holder effected at a U.S. office of a broker generally will be subject to information reporting and backup withholding, unless the beneficial owner, under penalties of perjury, certifies, among other things, its status as a non-U.S. holder or otherwise establishes an exemption. The payment of proceeds from the disposition of our common stock by a non-U.S. holder effected at a non-U.S. office of a broker generally will not be subject to backup withholding and information reporting, except as noted below. In the case of proceeds from a disposition of our common stock by a non-U.S. holder effected at a non-U.S. office of a broker that is:

a U.S. person;

a controlled foreign corporation for U.S. federal income tax purposes;

a foreign person 50% or more of whose gross income from certain periods is effectively connected with a U.S. trade or business; or

a foreign partnership if at any time during its tax year (a) one or more of its partners are U.S. persons who, in the aggregate, hold more than 50% of the income or capital interests of the partnership or (b) the foreign partnership is engaged in a U.S. trade or business,

information reporting will apply unless the broker has documentary evidence in its files that the owner is a non-U.S. holder and certain other conditions are satisfied, or the beneficial owner otherwise establishes an exemption (and the broker has no knowledge or reason to know to the contrary). Backup withholding will apply if the sale is subject to information reporting and the broker has actual knowledge that you are a United States person.

Backup withholding is not an additional tax. Any amounts withheld under the backup withholding rules from a payment to a non-U.S. holder can be refunded or credited against the non-U.S. holder's U.S. federal income tax liability, if any, provided that the required information is furnished to the Internal Revenue Service in a timely manner.

New Legislation

Under recently enacted legislation and administrative guidance, a United States federal withholding tax of 30% generally will be imposed on certain payments made to a foreign financial institution (as specifically defined under these rules) unless such institution enters into an agreement with the U.S. tax authorities to withhold on certain payments and to collect and provide to the U.S. tax authorities substantial information regarding U.S. account holders of such institution (which includes certain equity and debt holders of such institution, as well as certain account holders that are foreign entities with U.S. owners). Under the legislation and administrative guidance, a U.S. federal withholding tax of 30% generally also will be imposed on certain payments made to a non-financial foreign entity unless such entity provides the withholding agent with a certification identifying its direct and indirect U.S. owners. Under certain circumstances, a non-U.S. holder might be eligible for refunds or credits of such taxes. These withholding taxes would be imposed on dividends paid with respect to our common stock after June 30, 2014 to, and on gross proceeds from sales or other dispositions of our common stock after December 31, 2016 by, foreign financial institutions or non-financial entities (including in their capacity as agents or custodians for beneficial owners of our common stock) that fail to satisfy the above requirements. Prospective non-U.S. holders should consult with their tax advisors regarding the possible implications of this legislation on their investment in our common stock.

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UNDERWRITING

Under the terms and subject to the conditions contained in an underwriting agreement dated March 11, 2014 the selling stockholders have agreed to sell to Morgan Stanley & Co. LLC, the sole underwriter, 10,000,000 shares of common stock.

The underwriting agreement provides that the underwriter is obligated to purchase all the shares of common stock in the offering if any are purchased.

The selling stockholders have granted to the underwriter a 30-day option to purchase up to 1,500,000 additional shares at a price of \$4.50 per share. The selling stockholders will be obligated, pursuant to the underwriter's option, to sell these additional shares of common stock to the underwriter to the extent the option is exercised. If any additional shares of common stock are purchased, the underwriter will offer the additional shares on the same terms as those on which the shares are being offered.

The underwriter may receive from purchasers of the shares normal brokerage commissions in amounts agreed with such purchasers. The underwriter may offer the shares of common stock from time to time for sale in one or more transactions on the NYSE, in the over-the-counter market, through negotiated transactions or otherwise at market prices prevailing at the time of sale, at prices related to prevailing market prices or at negotiated prices, subject to receipt and acceptance by it and subject to its right to reject any order in whole or in part. In connection with the sale of the shares of common stock offered hereby, the underwriter may be deemed to have received compensation in the form of underwriting discounts. The underwriter may effect such transactions by selling shares of common stock to or through dealers, and such dealers may receive compensation in the form of discounts, concessions or commissions from the underwriter and/or purchasers of shares of common stock for whom they may act as agents or to whom they may sell as principal.

The expenses of the offering are estimated at \$600,000 and are payable by us. We and the selling stockholders have agreed to indemnify the underwriter against certain liabilities, including liabilities under the Securities Act.

No Sales of Similar Securities

We and Apollo have agreed not to sell or transfer any common stock or securities convertible into, exchangeable for, exercisable for, or repayable with common stock, for 45 days after the date of this prospectus supplement without first obtaining the written consent of the underwriter. Specifically, we and these other persons have agreed, with certain limited exceptions, not to directly or indirectly:

offer, pledge, sell or contract to sell any common stock,

sell any option or contract to purchase any common stock,

purchase any option or contract to sell any common stock,

grant any option, right or warrant for the sale of any common stock,

otherwise dispose of or transfer any common stock, or

enter into any swap or other agreement that transfers, in whole or in part, directly or indirectly, the economic consequence of ownership of any common stock whether any such swap or transaction is to be settled by delivery of shares or other securities, in cash or otherwise.

This lock-up provision applies to common stock and to securities convertible into or exchangeable or exercisable for common stock. It also applies to common stock owned now or acquired later by the person executing the agreement or for which the person executing the agreement later acquires the power of disposition.

New York Stock Exchange Listing

The shares are listed on the NYSE under the symbol NOR.

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Price Stabilization, Short Positions

Until the distribution of the shares is completed, SEC rules may limit the underwriter from bidding for and purchasing our common stock. However, the underwriter may engage in transactions that stabilize the price of the common stock, such as bids or purchases to peg, fix or maintain that price.

In connection with the offering, the underwriter may purchase and sell our common stock in the open market. These transactions may include short sales, purchases on the open market to cover positions created by short sales and stabilizing transactions. Short sales involve the sale by the underwriter of a greater number of shares than it is required to purchase in the offering. Stabilizing transactions consist of various bids for or purchases of shares of common stock made by the underwriter in the open market prior to the completion of the offering.

Similar to other purchase transactions, the underwriter's purchases to cover short sales may have the effect of raising or maintaining the market price of our common stock or preventing or retarding a decline in the market price of our common stock. As a result, the price of our common stock may be higher than the price that might otherwise exist in the open market.

Neither we nor the underwriter make any representation or prediction as to the direction or magnitude of any effect that the transactions described above may have on the price of our common stock. In addition, neither we nor the underwriter make any representation that the underwriter will engage in these transactions or that these transactions, once commenced, will not be discontinued without notice.

Electronic Offer, Sale and Distribution of Shares

In connection with the offering, the underwriter or certain of the securities dealers may distribute prospectuses by electronic means, such as e-mail. In addition, the underwriter may facilitate Internet distribution for this offering to certain of its Internet subscription customers. The underwriter may allocate a limited number of shares for sale to its online brokerage customers. An electronic prospectus is available on the Internet web site maintained by the underwriter. Other than the prospectus in electronic format, the information on the underwriter's web site is not part of this prospectus.

Other Relationships

The underwriter and its affiliates are full service financial institutions engaged in various activities, which may include securities trading, commercial and investment banking, financial advisory, investment management, investment research, principal investment, hedging, financing and brokerage activities. In the ordinary course of its various business activities, the underwriter and its affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers and may at any time hold long and short positions in such securities and instruments. Such investment and securities activities may involve our securities and instruments. The underwriter and its affiliates may also make investment recommendations and/or publish or express independent research views in respect of such securities or instruments and may at any time hold, or recommend to clients that they acquire, long and/or short positions in such securities and instruments.

The underwriter and its affiliates have engaged in, and may in the future engage in, investment banking and other commercial dealings in the ordinary course of business with us or our affiliates. They have received, or may in the future receive, customary fees and commissions for these transactions.

Notice to Prospective Investors in the EEA

In relation to each Member State of the European Economic Area (each, a Relevant Member State), no offer of shares may be made to the public in that Relevant Member State other than:

- A. to any legal entity which is a qualified investor as defined in the Prospectus Directive;

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B. to fewer than 100 or, if the Relevant Member State has implemented the relevant provision of the 2010PD Amending Directive, 150, natural or legal persons (other than qualified investors as defined in the Prospectus Directive), as permitted under the Prospectus Directive, subject to obtaining the prior consent of the underwriter; or

C. in any other circumstances falling within Article 3(2) of the Prospectus Directive, provided that no such offer of shares shall require the Company or the underwriter to publish a prospectus pursuant to Article 3 of the Prospectus Directive or supplement a prospectus pursuant to Article 16 of the Prospectus Directive.

Each person in a Relevant Member State who initially acquires any shares or to whom any offer is made will be deemed to have represented, acknowledged and agreed that it is a qualified investor within the meaning of the law in that Relevant Member State implementing Article 2(1)(e) of the Prospectus Directive. In the case of any shares being offered to a financial intermediary as that term is used in Article 3(2) of the Prospectus Directive, each such financial intermediary will be deemed to have represented, acknowledged and agreed that the shares acquired by it in the offer have not been acquired on a non-discretionary basis on behalf of, nor have they been acquired with a view to their offer or resale to, persons in circumstances which may give rise to an offer of any shares to the public other than their offer or resale in a Relevant Member State to qualified investors as so defined or in circumstances in which the prior consent of the underwriter has been obtained to each such proposed offer or resale.

The Company, the underwriter and their affiliates will rely upon the truth and accuracy of the foregoing representations, acknowledgements and agreements.

This prospectus supplement has been prepared on the basis that any offer of shares in any Relevant Member State will be made pursuant to an exemption under the Prospectus Directive from the requirement to publish a prospectus for offers of shares. Accordingly any person making or intending to make an offer in that Relevant Member State of shares which are the subject of the offering contemplated in this prospectus supplement may only do so in circumstances in which no obligation arises for the Company or the underwriter to publish a prospectus pursuant to Article 3 of the Prospectus Directive in relation to such offer. Neither the Company nor the underwriter has authorized, nor do they authorize, the making of any offer of shares in circumstances in which an obligation arises for the Company or the underwriter to publish a prospectus for such offer.

For the purpose of the above provisions, the expression an offer to the public in relation to any shares in any Relevant Member State means the communication in any form and by any means of sufficient information on the terms of the offer and the shares to be offered so as to enable an investor to decide to purchase or subscribe for the shares, as the same may be varied in the Relevant Member State by any measure implementing the Prospectus Directive in the Relevant Member State, and the expression Prospectus Directive means Directive 2003/71/EC (including the 2010 PD Amending Directive, to the extent implemented in the Relevant Member States) and includes any relevant implementing measure in the Relevant Member State and the expression 2010 PD Amending Directive means Directive 2010/73/EU.

Notice to Prospective Investors in the United Kingdom

In addition, in the United Kingdom, this document is being distributed only to, and is directed only at, and any offer subsequently made may only be directed at persons who are qualified investors (as defined in the Prospectus Directive) (i) who have professional experience in matters relating to investments falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, as amended (the Order) and/or (ii) who are high net worth companies (or persons to whom it may otherwise be lawfully communicated) falling within Article 49(2)(a) to (d) of the Order (all such persons together being referred to as relevant persons). This document must not be acted on or relied on in the United Kingdom by persons who are not relevant persons. In the United Kingdom, any investment or investment activity to which this document relates is only available to, and will be engaged in with, relevant persons.

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Notice to Prospective Investors in Switzerland

The shares may not be publicly offered in Switzerland and will not be listed on the SIX Swiss Exchange (SIX) or on any other stock exchange or regulated trading facility in Switzerland. This document has been prepared without regard to the disclosure standards for issuance prospectuses under art. 652a or art. 1156 of the Swiss Code of Obligations or the disclosure standards for listing prospectuses under art. 27 ff. of the SIX Listing Rules or the listing rules of any other stock exchange or regulated trading facility in Switzerland. Neither this document nor any other offering or marketing material relating to the shares or the offering may be publicly distributed or otherwise made publicly available in Switzerland.

Neither this document nor any other offering or marketing material relating to the offering, the Company or the shares have been or will be filed with or approved by any Swiss regulatory authority. In particular, this document will not be filed with, and the offer of shares will not be supervised by, the Swiss Financial Market Supervisory Authority FINMA (FINMA), and the offer of shares has not been and will not be authorized under the Swiss Federal Act on Collective Investment Schemes (CISA). The investor protection afforded to acquirers of interests in collective investment schemes under the CISA does not extend to acquirers of shares.

Notice to Prospective Investors in the Dubai International Financial Centre

This prospectus supplement relates to an Exempt Offer in accordance with the Offered Securities Rules of the Dubai Financial Services Authority (DFSA). This prospectus supplement is intended for distribution only to persons of a type specified in the Offered Securities Rules of the DFSA. It must not be delivered to, or relied on by, any other person. The DFSA has no responsibility for reviewing or verifying any documents in connection with Exempt Offers. The DFSA has not approved this prospectus supplement nor taken steps to verify the information set forth herein and has no responsibility for the prospectus supplement. The shares to which this prospectus supplement relates may be illiquid and/or subject to restrictions on their resale. Prospective purchasers of the shares offered should conduct their own due diligence on the shares. If you do not understand the contents of this prospectus supplement you should consult an authorized financial advisor.

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LEGAL MATTERS

Wachtell, Lipton, Rosen & Katz will pass upon for us the validity of the shares of our common stock offered hereby. The underwriter has been represented by Fried, Frank, Harris, Shriver & Jacobson LLP, New York, New York.

EXPERTS

The consolidated financial statements of Noranda Aluminum Holding Corporation appearing in Noranda Aluminum Holding Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, and the effectiveness of Noranda Aluminum Holding Corporation's internal control over financial reporting as of December 31, 2013 have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their reports thereon, included therein, and incorporated herein by reference. Such consolidated financial statements referred to above are incorporated herein by reference in reliance upon such reports given on the authority of such firm as experts in accounting and auditing.

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PROSPECTUS

Noranda Aluminum Holding Corporation

Common Stock

Preferred Stock

Stock Purchase Contracts

Warrants

Debt Securities

We may offer and sell from time to time common stock, preferred stock, stock purchase contracts, warrants and debt securities (including debt securities that may be convertible into or exchangeable for common stock). Our common stock, preferred stock, stock purchase contracts, warrants and debt securities may be offered separately or together, in multiple series, in amounts, at prices and on terms that will be set forth in one or more prospectus supplements to this prospectus.

In addition, up to 43,325,673 shares of our common stock may be offered and sold, from time to time, by selling stockholders described in this prospectus under the heading **Selling Stockholders** in the future in amounts, at prices, and on other terms to be determined at the time of the offering and by any means described in this Prospectus under **Plan of Distribution**. We will bear all costs, fees and expenses in connection with the selling of stockholders' securities. The selling stockholders will pay all commissions and discounts, if any, attributable to the sale or disposition of their shares of our securities. We will not receive any proceeds from the sale of our common stock by the selling stockholders.

This prospectus provides you with a general description of the securities we or the selling stockholders may offer. Each time we or a selling stockholder sells securities pursuant to this prospectus, we will provide a supplement to this prospectus that contains specific information about the offering. You should read this prospectus and the applicable prospectus supplement carefully and any document we incorporate by reference into this prospectus and any accompanying prospectus supplement before you invest in our securities. This prospectus may not be used to sell securities unless accompanied by a prospectus supplement.

Neither the Securities and Exchange Commission nor any state securities commission or other regulatory body has approved or disapproved of these securities or passed upon the accuracy or adequacy of this prospectus. Any representation to the contrary is a criminal offense.

Noranda Aluminum Holding Corporation's common stock is traded on the New York Stock Exchange under the symbol **NOR**.

Investing in our Securities involves risk. You should carefully review the risks and uncertainties described under the heading **Risk Factors contained in the applicable prospectus supplement and any related free writing prospectus, and under similar headings in the other documents that are incorporated by reference into this prospectus. See **Information Incorporated by Reference**.**

This prospectus is dated March 11, 2011.

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission (SEC) using a shelf registration or continuous offering process. Under this shelf process, we and/or the selling stockholders, may from time to time sell Noranda Aluminum Holding Corporation securities in one or more offerings.

Each time we or one or more selling stockholders sell securities under this prospectus we will provide a prospectus supplement containing specific information about the terms of the securities being offered. That prospectus supplement may include a discussion of any risk factors or other special considerations that apply to those securities. The prospectus supplement may also add, update, or change the information in this prospectus. If there is any inconsistency between the information in this prospectus and any prospectus supplement, you should rely on the information in that prospectus supplement. You should read both this prospectus and any prospectus supplement together with additional information described under the headings Where You Can Find More Information and Information Incorporated by Reference.

The registration statement containing this prospectus, including exhibits to the registration statement, provides additional information about us and the securities offered under this prospectus. The registration statement can be read at the SEC website or at the SEC offices mentioned under the heading Where You Can Find More Information.

You should rely only on the information contained in this prospectus, including information incorporated by reference as described above, or any prospectus supplement that we have specifically referred you to. We have not authorized anyone to provide you with additional or different information. If anyone provides you with additional, different or inconsistent information, you should not rely on it. We are not making an offer of these securities in any state or other jurisdiction where the offer is not permitted. You should not assume that the information in this prospectus or any prospectus supplement or any document incorporated by reference into this prospectus or the prospectus supplement is accurate as of any date other than the date of the applicable document regardless of its time of delivery or the time of any sales of our securities. Our business, financial condition, results of operations or cash flows may have changed since the date of the applicable document.

When we refer to Noranda , we , our , and us in this prospectus, we mean Noranda Aluminum Holding Corporation and our consolidated subsidiaries and Apollo collectively refers to Apollo Management, L.P. and its affiliates, unless the context indicates otherwise.

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CAUTIONARY STATEMENT CONCERNING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements which involve risks and uncertainties. You can identify forward-looking statements because they contain words such as believes, expects, may, should, seeks, approximately, intends, plans, estimates, or anticipations, or expressions that relate to our strategy, plans or intentions. All statements we make relating to our estimated and projected earnings, margins, costs, expenditures, cash flows, growth rates and financial results or to our expectations regarding future industry trends are forward-looking statements. In addition, we, through our senior management, from time to time make forward-looking public statements concerning our expected future operations and performance and other developments. These forward-looking statements are subject to risks and uncertainties that may change at any time, and, therefore, our actual results may differ materially from those that we expected. We derive many of our forward-looking statements from our operating budgets and forecasts, which are based upon many detailed assumptions. While we believe that our assumptions are reasonable, we caution that it is very difficult to predict the impact of known factors, and it is impossible for us to anticipate all factors that could affect our actual results. All forward-looking statements are based upon information available to us on the date of this prospectus.

Important factors that could cause actual results to differ materially from our expectations, which we refer to as cautionary statements, are discussed under Risk Factors and elsewhere in this prospectus, our reports filed from time to time with the SEC, which are incorporated by reference into this prospectus, as the same may be amended, supplemented or superseded from time to time by our filings under the Exchange Act, or any prospectus supplement. All forward-looking information in this prospectus and documents incorporated by reference herein and subsequent written and oral forward-looking statements attributable to us, or to persons acting on our behalf, are expressly qualified in their entirety by the cautionary statements. Some of the factors that we believe could affect our results include:

our indebtedness, and the possibility that we may incur more indebtedness;

the cyclical nature of the aluminum industry and fluctuating commodity prices, which cause variability in our earnings and cash flows;

a downturn in general economic conditions, including changes in interest rates, as well as a downturn in the end-use markets for certain of our products;

losses caused by disruptions in the supply of electrical power;

fluctuations in the relative cost of certain raw materials and energy compared to the price of primary aluminum and aluminum rolled products;

the effects of competition in our business lines;

the relative appeal of aluminum compared with alternative materials;

our ability to retain customers, a substantial number of which do not have long-term contractual arrangements with us;

our ability to fulfill our business's substantial capital investment needs;

the cost of compliance with and liabilities under environmental, safety, production and product regulations;

weather, including natural disasters and other unplanned business interruptions;

labor relations (*i.e.*, disruptions, strikes or work stoppages) and labor costs;

unexpected issues arising in connection with our operations outside of the United States;

our ability to retain key management personnel;

our expectations with respect to our acquisition activity, or difficulties encountered in connection with acquisitions, dispositions or similar transactions;

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the ability of our insurance to cover fully our potential exposures;

the cost of compliance with future changes to healthcare legislation; and

the concentration of ownership held by our equity sponsor.

We caution you that the foregoing list of important factors may not contain all of the material factors that are important to you. In addition, in light of these risks and uncertainties, the matters referred to in the forward-looking statements contained in this prospectus may not in fact occur. Accordingly, investors should not place undue reliance on those statements. We undertake no obligation to publicly update or revise any forward-looking statement as a result of new information, future events or otherwise, except as otherwise required by law.

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PROSPECTUS SUMMARY

We are a leading North American integrated producer of value-added primary aluminum products and high quality rolled aluminum coils. We have two businesses: our upstream business and downstream business. Our upstream business consists of three reportable segments: primary aluminum products, alumina refining, and bauxite. These three segments are closely integrated and consist of a smelter near New Madrid, Missouri, which we refer to as New Madrid, and our bauxite mining operation and alumina refinery, both of which have sufficient capacity to support New Madrid and supply third party customers. New Madrid has annual production capacity of approximately 580 million pounds (263,000 metric tonnes). Operated at capacity, this represents more than 15% of total 2010 U.S. primary aluminum production, based on statistics from CRU. Our flat rolled products segment comprises our downstream business, which is one of the largest aluminum foil producers in North America and consists of four rolling mill facilities with a combined maximum annual production capacity of 410 to 495 million pounds, depending on production mix.

Our principal executive offices are located at 801 Crescent Centre Drive, Suite 600, Franklin, TN 37067, and our telephone number is (615) 771-5700. Our website is located at www.norandaaluminum.com. We make our periodic reports and other information filed with or furnished to the SEC available, free of charge, through our website, as soon as reasonably practicable after those reports and other information are electronically filed with or furnished to the SEC. Information on our website or any other website is not incorporated by reference into this prospectus and does not constitute a part of this prospectus.

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WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly, and current reports, proxy statements, and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's web site at www.sec.gov and on the investor relations page of our corporate website at www.norandaaluminum.com. Except for those SEC filings incorporated by reference in this prospectus, none of the other information on those websites is part of this prospectus. You may also read and copy any document we file with the SEC at its public reference facilities at 100 F Street N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the operation of the public reference facilities.

INFORMATION INCORPORATED BY REFERENCE

The SEC allows us to incorporate by reference much of the information that we file with it, which means that we can disclose important information to you by referring you to those publicly available documents. The information that we incorporate by reference is an important part of this prospectus. Some information contained in this prospectus updates the information incorporated by reference, and information that we file in the future with the SEC will automatically modify, supersede, or update this prospectus. In other words, in the case of a conflict or inconsistency between information in this prospectus and/or information incorporated by reference into this prospectus, you should rely on the information contained in the document that was filed later.

This prospectus incorporates by reference the documents listed below and any filings we make with the SEC under Section 13(a), 13(c), 14, or 15(d) of the Securities Exchange Act of 1934 after the initial filing of the registration statement related to this prospectus until the termination of the offering of these securities:

The Registrant's Annual Report on Form 10-K for the fiscal year ended December 31, 2010, filed on March 7, 2011;

The description of the Registrant's Common Stock, par value \$0.01 per share, contained in the Registrant's Registration Statement on Form 8-A, as amended (File No. 001-34741), filed with the SEC on May 11, 2010 under the Securities Exchange Act of 1934, as amended, including any amendment or report filed for the purpose of updating such description.

Notwithstanding the foregoing, we are not incorporating any document or information deemed to have been furnished and not filed in accordance with SEC rules.

Documents incorporated by reference are available without charge, excluding any exhibits to those documents unless the exhibit is specifically incorporated by reference as an exhibit in this document. You can obtain documents incorporated by reference in this document by requesting them in writing or by telephone from us at the following address:

Noranda Aluminum Holding Corporation

801 Crescent Centre Drive, Suite 600

Franklin, Tennessee 37067

Attn: Investor Relations

Telephone: (615) 771-5700

You should rely only on the information contained in or incorporated by reference in this prospectus or any prospectus supplement. We have not authorized anyone to provide you with different information. We are not making an offer of these securities in any state where the offer is not permitted. You should not assume that the information contained in or incorporated by reference in this prospectus or any prospectus supplement is accurate as of any date other than the date on the front cover of the applicable document.

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Any statement contained in a document incorporated by reference, or deemed to be incorporated by reference, in this prospectus shall be deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained in this prospectus or in any other subsequently filed document which also is incorporated by reference in this prospectus modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus.

Statements contained in this prospectus as to the contents of any contract or other document referred to in this prospectus supplement or the accompanying prospectus do not purport to be complete, and where reference is made to the particular provisions of such contract or other document, such provisions are qualified in all respects by reference to all of the provisions of such contract or other document. We will provide without charge to each person to whom a copy of this prospectus has been delivered, on the written or oral request of such person, a copy of any or all of the documents which have been or may be incorporated in this prospectus by reference (other than exhibits to such documents unless such exhibits are specifically incorporated by reference in any such documents) and a copy of any or all other contracts or documents which are referred to in this prospectus. You may request a copy of these filings at the address and telephone number set forth above.

In reviewing any agreements incorporated by reference, please remember that they are included to provide you with information regarding the terms of such agreements and are not intended to provide any other factual or disclosure information about Noranda. The agreements may contain representations and warranties by Noranda or other parties, which should not in all instances be treated as categorical statements of fact, but rather as a way of allocating the risk to one of the parties if those statements prove to be inaccurate. The representations and warranties were made only as of the date of the relevant agreement or such other date or dates as may be specified in such agreement and are subject to more recent developments. Accordingly, these representations and warranties alone may not describe the actual state of affairs as of the date they were made or at any other time.

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INDUSTRY AND MARKET DATA

This prospectus and any prospectus supplement may include industry and trade association data, forecasts and information that we have prepared based, in part upon data, forecasts and information obtained from independent trade associations, industry publications and surveys and other information available to us. Some data is also based on our good faith estimates, which are derived from management's knowledge of the industry and independent sources. Industry publications and surveys and forecasts generally state that the information contained therein has been obtained from sources believed to be reliable. Although we believe these sources are reliable, we have not independently verified the information. Statements as to our market position are based on market data currently available to us. While we are not aware of any misstatements regarding our industry data presented herein, our estimates involve risks and uncertainties and are subject to change based on various factors, including those discussed under the heading "Risk Factors" in this prospectus or any prospectus supplement. Similarly, we believe our internal research is reliable, even though such research has not been verified by any independent sources.

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RISK FACTORS

An investment in our securities involves a high degree of risk. You should carefully consider the risk factors described in Part I, Item 1A, "Risk Factors" in our 2010 Annual Report on Form 10-K and our other reports filed from time to time with the SEC, which are incorporated by reference into this prospectus, as the same may be amended, supplemented or superseded from time to time by our filings under the Exchange Act, as well as any prospectus supplement relating to our securities. Before making any investment decision, you should carefully consider these risks as well as other information we include or incorporate by reference in this prospectus or in any applicable prospectus supplement. The risks and uncertainties described in the prospectus supplement and the documents we incorporate by reference into this prospectus are not the only ones we face. Additional risks and uncertainties that we are unaware of or that we believe are not material at the time could also materially adversely affect our business, financial condition or results of operations. In any case, the value of our securities could decline, and you could lose all or part of your investment. See also the information contained under the heading "Cautionary Statement Concerning Forward-Looking Statements" above.

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USE OF PROCEEDS

Unless the applicable prospectus supplement states otherwise, the net proceeds from the sale of the securities by us will be used for general corporate purposes. We will not receive any proceeds from the sale of the securities by selling stockholders. General corporate purposes include working capital, the expansion of our production capabilities, research and development, purchases of capital equipment, potential acquisitions of businesses that we believe are complementary to our business and the repayment, repurchase or redemption of outstanding indebtedness. We have not determined the specific portion of any net proceeds to be used for these purposes, and the net proceeds from this offering have not been accounted for in our normal budgeting process. Although from time to time we evaluate possible acquisitions of companies and assets, we currently have no definitive commitments or agreements to make any acquisitions, and cannot assure you that we will make any acquisitions in the future. The amounts actually expended for these purposes may vary significantly and will depend on a number of factors, including the amount of cash we generate from future operations, the actual expenses of operating our business, opportunities that may be or become available to us.

Table of Contents**CONSOLIDATED RATIO OF EARNINGS TO FIXED CHARGES**

The table below sets forth our consolidated ratio of earnings to fixed charges. We have not presented a ratio of earnings to fixed charges and preferred stock dividends because we did not have preferred stock outstanding as of the date of this prospectus. The following table should be read in conjunction with our consolidated financial statements and related notes and Management's Discussion and Analysis of Financial Condition and Results of Operations included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2010, which is incorporated by reference herein. For further information, please see Exhibit 12.1 (Computation of Ratio of Earnings to Fixed Charges) to the registration statement of which this prospectus forms a part.

	Pre-predecessor	Predecessor		Successor			
	Period from January 1, 2006 to August 15, 2006	Period from August 16, 2006 to December 31, 2006 and as of December 31, 2006	Period from January 1, 2007 to May 17, 2007	Period from May 18, 2007 to December 31, 2007 and as of December 31, 2007	As of and for the year ended December 31, 2008	As of and for the year ended December 31, 2009	As of and for the year ended December 31, 2010
(in millions) Ratio of Earnings to Fixed Charges	8.6x	10.2x	4.6x	1.1x	*	3.9x	4.1x

* Earnings for the year ended December 31, 2008 were inadequate to cover fixed charges. The coverage deficiency was \$114.7 million.

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SELLING STOCKHOLDERS

This prospectus also relates to the possible resale of up to a total of 43,325,673 shares of our common stock by Apollo and certain of our current and former executive officers, employees and directors. Information about such officers, employees and directors that may offer shares of common stock pursuant to this prospectus will be set forth in one or more prospectus supplements or in filings that we make with the SEC under the Exchange Act that are incorporated by reference into this prospectus. Each of such officers, employees and directors who may offer shares of common stock pursuant to this prospectus acquired the shares prior to the date of the filing of the registration statement of which this prospectus forms a part. The transactions in which the shares were acquired have been completed. The shares were acquired as part of the acquisition of the Company by Apollo in May of 2007 and, in the case of the executive officers, employees and directors, through participating in certain employee benefit plans and/or stock incentive plans.

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DESCRIPTION OF CAPITAL STOCK

The following is a description of the material terms of our amended and restated certificate of incorporation and bylaws, and of specific provisions of Delaware law. The following description is intended as a summary only and is qualified in its entirety by reference to our amended and restated certificate of incorporation, our amended and restated bylaws and the Delaware General Corporation Law, or DGCL.

General

Pursuant to our amended and restated certificate of incorporation, our capital stock consists of a total of 225 million authorized shares, of which 200 million shares, par value \$0.01 per share, are designated as common stock and 25 million shares, par value \$0.01 per share, are designated as preferred stock. As of February 28, 2011, there were 66,826,561 shares of common stock outstanding and no shares of preferred stock outstanding.

Common Stock

Voting Rights. Holders of common stock are entitled to one vote per share on all matters to be voted upon by the stockholders. The holders of common stock do not have cumulative voting rights in the election of directors.

Dividend Rights. Holders of common stock are entitled to receive ratably dividends if, as and when dividends are declared from time to time by our Board of Directors out of funds legally available for that purpose, after payment of dividends required to be paid on outstanding preferred stock, as described below, if any. Under Delaware law, we can only pay dividends either out of surplus or out of the current or the immediately preceding year's net profits. Surplus is defined as the excess, if any, at any given time, of the total assets of a corporation over its total liabilities and statutory capital. The value of a corporation's assets can be measured in a number of ways and may not necessarily equal their book value.

Liquidation Rights. Upon liquidation, dissolution or winding up, the holders of common stock are entitled to receive ratably the assets available for distribution to the stockholders after payment of liabilities and accrued but unpaid dividends and liquidation preferences on any outstanding preferred stock.

Other Matters. The common stock has no preemptive or conversion rights. There are no redemption or sinking fund provisions applicable to the common stock. All outstanding shares of our common stock are fully paid and non-assessable, and the shares of our common stock offered in this offering, upon payment and delivery in accordance with the underwriting agreement, will be fully paid and non-assessable.

Preferred Stock

Pursuant to our amended and restated certificate of incorporation, shares of preferred stock are issuable from time to time, in one or more series, with the designations of the series, the voting rights (if any) of the shares of the series, the powers, preferences and relative, participation, optional or other special rights, if any, and any qualifications, limitations or restrictions thereof as our Board of Directors from time to time may adopt by resolution, subject to certain limitations. Each series will consist of that number of shares as will be stated and expressed in the certificate of designations providing for the issuance of the stock of the series. All shares of any one series of preferred stock will be identical.

A prospectus supplement relating to any series of preferred stock being offered will include specific terms relating to the offering. They will include, where applicable:

the title and stated value of the series of shares of preferred stock and the number of shares constituting that series;

the number of shares of the series of preferred stock offered, the liquidation preference per share and the offering price of the shares of preferred stock;

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the dividend rate(s), period(s) and/or payment date(s) or the method(s) of calculation for those values relating to the shares of preferred stock of the series;

the date from which dividends on shares of preferred stock of the series shall cumulate, if applicable;

our right, if any, to defer payment of dividends and the maximum length of any such deferral period;

the procedures for any auction and remarketing, if any, for shares of preferred stock of the series;

the provision for a sinking fund, if any, for shares of preferred stock of the series;

the provision for redemption or repurchase, if applicable, of shares of preferred stock of the series;

any listing of the series of shares of preferred stock on any securities exchange;

the terms and conditions, if applicable, upon which shares of preferred stock of the series will be convertible into shares of preferred stock of another series or common stock, including the conversion price, or manner of calculating the conversion price;

whether the preferred stock will be exchangeable into debt securities, and, if applicable, the exchange period, the exchange price, or how it will be calculated, and under what circumstances it may be adjusted;

voting rights, if any, of the preferred stock;

restrictions on transfer, sale or other assignment, if any;

whether interests in shares of preferred stock of the series will be represented by global securities;

any other specific terms, preferences, rights, limitations or restrictions of the series of shares of preferred stock;

a discussion of any material United States federal income tax consequences of owning or disposing of the shares of preferred stock of the series;

the relative ranking and preferences of shares of preferred stock of the series as to dividend rights and rights upon liquidation, dissolution or winding up of our affairs; and

any limitations on issuance of any series of shares of preferred stock ranking senior to or on a parity with the series of shares of preferred stock as to dividend rights and rights upon liquidation, dissolution or winding up of our affairs.

When we issue shares of preferred stock under this prospectus, the shares will be fully paid and nonassessable and will not have, or be subject to, any preemptive or similar rights.

Composition of Board of Directors; Election and Removal of Directors

In accordance with our amended and restated certificate of incorporation and our amended and restated bylaws, the number of directors comprising our Board of Directors is determined from time to time by our Board of Directors, and only a majority of the Board of Directors may fix the number of directors. We currently avail ourselves of the controlled company exception under the New York Stock Exchange rules which exempts us from certain requirements, including the requirements that we have a majority of independent directors on our Board of Directors and that we have compensation and nominating and corporate governance committees composed entirely of independent directors. We, however, remain subject to the requirement that we have an audit committee composed entirely of independent members. Currently, we have 12 directors. Each director is to hold office until his or her successor is duly elected and qualified or until his or her earlier death, resignation or removal. At any meeting of our Board of Directors, except as otherwise required by law, a majority of the total number of directors then in office will constitute a quorum for all purposes; provided, however, that for so long as there is at least one Apollo representative on the Board of Directors, then a quorum must include such representative unless he or she waives the right to be included in the quorum at such meeting.

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The amended and restated securityholders agreement among Noranda, Apollo and certain members of our management provides that, except as otherwise required by applicable law, if Apollo continues to hold (1) at least 30% but less than 50% of our outstanding common stock, it will have the right to designate at least six director nominees; (2) at least 20% but less than 30% of our outstanding common stock, it will have the right to designate at least five director nominees; and (3) at least 10% but less than 20% of our outstanding common stock, it will have the right to designate at least three director nominees. If, at any time, the Board of Directors decreases the size of the Board of Directors to nine or fewer directors, Apollo will have the right to designate at least four, three and two director nominees, respectively, according to the ownership levels detailed above. Once Apollo owns less than 10% of our outstanding common stock, it will have no right to designate directors. Except as otherwise required by applicable law, Apollo will have the right to designate a replacement to fill a vacancy on Noranda's Board of Directors that was designated by Apollo. See Certain Relationships and Related Party Transactions Amended and Restated Securityholders Agreement, incorporated by reference into this prospectus from our Annual Report on Form 10-K for the year ended December 31, 2010.

Our amended and restated certificate of incorporation provides that our Board of Directors is divided into three classes of directors, with the classes to be as nearly equal in number as possible. As a result, approximately one-third of our Board of Directors will be elected each year. The classification of directors has the effect of making it more difficult for stockholders to change the composition of our board. Our amended and restated certificate of incorporation also provides that stockholders do not have the right to cumulative votes in the election of directors.

Under the DGCL, unless otherwise provided in our amended and restated certificate of incorporation, directors serving on a classified board may be removed by the stockholders only for cause. Our amended and restated certificate of incorporation does not make an exception to this rule. In addition, our amended and restated certificate of incorporation and bylaws provide that, except to the extent otherwise provided in the amended and restated securityholders agreement, any vacancies on our Board of Directors will be filled only by the affirmative vote of a majority of the remaining directors, although less than a quorum, subject to Apollo's rights as described above.

Special Meetings of Stockholders

Our amended and restated bylaws provides that special meetings of the stockholders may be called only by the Board of Directors and the chairman.

Section 203 of the DGCL

In our amended and restated certificate of incorporation, we elect not to be subject to Section 203 of the DGCL. In general, Section 203 prohibits a publicly held Delaware corporation from engaging in a business combination with an interested stockholder for a three-year period following the time that this stockholder becomes an interested stockholder, unless the business combination is approved in the manner prescribed therein. A business combination includes a merger, asset sale or other transaction resulting in a financial benefit to the interested stockholder. An interested stockholder is a person who, together with affiliates and associates, owns (or, in some cases, within three years prior, did own) 15% or more of the corporation's voting stock.

Certain Corporate Anti-Takeover Provisions

Certain provisions in our amended and restated certificate of incorporation and amended and restated bylaws summarized below may be deemed to have an anti-takeover effect and may delay, deter or prevent a tender offer or takeover attempt that a stockholder might consider to be in its best interests, including attempts that might result in a premium being paid over the market price for the shares held by stockholders.

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Preferred Stock

Our amended and restated certificate of incorporation contains provisions that permit our Board of Directors to issue, without any further vote or action by the stockholders, shares of preferred stock in one or more series and, with respect to each such series, to fix the number of shares constituting the series and the designation of the series, the voting rights (if any) of the shares of the series, and the powers, preferences and relative, participation, optional and other special rights, if any, and any qualifications, limitations or restrictions, of the shares of such series. See Preferred Stock.

Classified Board; Number of Directors

Our amended and restated certificate of incorporation provides that our Board of Directors is divided into three classes of directors, with the classes to be as nearly equal in number as possible and the number of directors on our board may be fixed only by the majority of our Board of Directors, as described above in Composition of Board of Directors; Election and Removal of Directors.

Removal of Directors, Vacancies

Our stockholders are able to remove directors only for cause and only by the affirmative vote of the holders of a majority of the outstanding shares of our capital stock entitled to vote in the election of directors. Vacancies on our Board of Directors may be filled only by a majority of our Board of Directors. Except as otherwise required by applicable law, the amended and restated securityholders agreement provides that Apollo has the right to designate a replacement to fill a vacancy on Noranda's Board of Directors that was designated by Apollo. See Certain Relationships and Related Party Transactions Amended and Restated Securityholders Agreement, incorporated by reference into this prospectus from our Annual Report on Form 10-K for the year ended December 31, 2010.

No Cumulative Voting

Our amended and restated certificate of incorporation provides that stockholders do not have the right to cumulative votes in the election of directors. Cumulative voting rights would have been available to the holders of our common stock if our amended and restated articles of incorporation had not negated cumulative voting.

Calling of Special Meetings of Stockholders

Our amended and restated certificate of incorporation and our amended and restated bylaws provides that special meetings of our stockholders may be called only by our Board of Directors or the Chairman of our Board of Directors.

Advance Notice Requirements for Stockholder Proposals and Director Nominations

Our amended and restated bylaws provides that stockholders seeking to nominate candidates for election as directors or to bring business before an annual meeting of stockholders must provide timely notice of their proposal in writing to the corporate secretary.

Generally, to be timely, a stockholder's notice must be received at our principal executive offices not less than 90 days or more than 120 days prior to the first anniversary date of the previous year's annual meeting. Our amended and restated bylaws will also specify requirements as to the form and content of a stockholder's notice. These provisions may impede stockholders' ability to bring matters before an annual meeting of stockholders or make nominations for directors at an annual meeting of stockholders.

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Delaware Takeover Statute

In our amended and restated certificate of incorporation we elect not to be subject to Section 203 of the DGCL, which would have imposed additional requirements regarding certain mergers and other business combinations.

All the foregoing proposed provisions of our amended and restated certificate of incorporation and amended and restated bylaws could discourage potential acquisition proposals and could delay or prevent a change in control. These provisions are intended to enhance the likelihood of continuity and stability in the composition of the Board of Directors and in the policies formulated by the Board of Directors and to discourage certain types of transactions that may involve an actual or threatened change of control. These provisions are designed to reduce our vulnerability to an unsolicited acquisition proposal. The provisions also are intended to discourage certain tactics that may be used in proxy fights. These same provisions may delay, deter or prevent a tender offer or takeover attempt that a stockholder might consider to be in its best interest. In addition, such provisions could have the effect of discouraging others from making tender offers for our shares and, as a consequence, they also may inhibit fluctuations in the market price of our common stock that could result from actual or rumored takeover attempts. Such provisions also may have the effect of preventing changes in our management.

Corporate Opportunity

Our amended and restated certificate of incorporation provides that no officer or director of us who is also an officer, director, employee, managing director or other affiliate of Apollo will be liable to us or our stockholders for breach of any fiduciary duty by reason of the fact that any such individual directs a corporate opportunity to Apollo instead of us, or does not communicate information regarding a corporate opportunity to us that the officer, director, employee, managing director or other affiliate has directed to Apollo.

Amendment of Our Certificate of Incorporation

Under applicable law, our amended and restated certificate of incorporation provides that it may be amended only with the affirmative vote of a majority of the outstanding stock entitled to vote thereon; provided that Apollo's prior written approval is required for any modification, amendment or repeal of the provisions discussed above regarding the ability of Apollo-related directors to direct or communicate corporate opportunities to Apollo. See Corporate Opportunity.

Amendment of Our Bylaws

Our amended and restated bylaws provide that they can be amended by the vote of the holders of a majority of the shares then entitled to vote or by the vote of a majority of the Board of Directors.

Limitation of Liability and Indemnification

Our amended and restated certificate of incorporation provides that no director will be personally liable for monetary damages for breach of any fiduciary duty as a director, except with respect to liability:

for any breach of the director's duty of loyalty to us or our stockholders;

for acts or omissions not in good faith or that involve intentional misconduct or a knowing violation of law;

under Section 174 of the DGCL (governing distributions to stockholders); or

for any transaction from which the director derived any improper personal benefit.

However, if the DGCL is amended to authorize corporate action further eliminating or limiting the personal liability of directors, then the liability of our directors will be eliminated or limited to the fullest extent permitted

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by the DGCL, as so amended. The modification or repeal of this provision of our amended and restated certificate of incorporation will not adversely affect any right or protection of a director existing at the time of such modification or repeal.

Our amended and restated certificate of incorporation provides that we will, to the fullest extent from time to time permitted by law, indemnify our directors and officers against all liabilities and expenses in any suit or proceeding, arising out of their status as an officer or director or their activities in these capacities. We will also indemnify any person who, at our request, is or was serving as a director, officer or employee of another corporation, partnership, joint venture, trust or other enterprise. We may, by action of our Board of Directors, provide indemnification to our employees and agents within the same scope and effect as the foregoing indemnification of directors and officers.

The right to be indemnified will include the right of an officer or a director to be paid expenses in advance of the final disposition of any proceeding, provided that, if required by law, we receive an undertaking to repay such amount if it will be determined that he or she is not entitled to be indemnified.

Our Board of Directors may take such action as it deems necessary to carry out these indemnification provisions, including adopting procedures for determining and enforcing indemnification rights and purchasing insurance policies. Our Board of Directors may also adopt bylaws, resolutions or contracts implementing indemnification arrangements as may be permitted by law. Neither the amendment nor the repeal of these indemnification provisions, nor the adoption of any provision of our amended and restated certificate of incorporation inconsistent with these indemnification provisions, will eliminate or reduce any rights to indemnification relating to their status or any activities prior to such amendment, repeal or adoption.

We believe these provisions will assist in attracting and retaining qualified individuals to serve as directors.

Listing

Our common stock is listed on the New York Stock Exchange under the trading symbol NOR.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is American Stock Transfer & Trust Company, LLC.

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DESCRIPTION OF STOCK PURCHASE CONTRACTS

The following description, together with the additional information that we include in any applicable prospectus supplement and in any related free writing prospectuses, summarizes the material terms and provisions of the stock purchase contracts that we may offer under this prospectus. While the terms we have summarized below will apply generally to any stock purchase contracts that we may offer under this prospectus, we will describe the particular terms of any series of stock purchase contracts in more detail in the applicable prospectus supplement. The terms of any stock purchase contracts offered under a prospectus supplement may differ from the terms described below.

We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from reports that we file with the SEC, the form of stock purchase contract that describes the terms of the particular stock purchase contract we are offering before the issuance of the related stock purchase contract. The following summaries of material provisions of the stock purchase contracts are subject to, and qualified in their entirety by reference to, all the provisions of the stock purchase contracts applicable to the stock purchase contracts that we may offer under this prospectus. We urge you to read the applicable prospectus supplements related to the stock purchase contracts that we may offer under this prospectus, as well as any related free writing prospectuses, and the complete stock purchase contracts that contain the terms of the stock purchase contracts.

We may issue stock purchase contracts, including contracts obligating holders to purchase from us and us to sell to the holders, a specified number of shares of common stock at a future date or dates. Alternatively, the stock purchase contracts may obligate us to purchase from holders, and obligate holders to sell to us, a specified or varying number of shares of common stock. The consideration per share of common stock may be fixed at the time the stock purchase contracts are issued or may be determined by a specific reference to a formula set forth in the stock purchase contracts. The stock purchase contracts may provide for settlement by delivery by us or on our behalf of shares of the underlying security, or they may provide for settlement by reference or linkage to the value, performance or trading price of the underlying security. The stock purchase contracts may require us to make periodic payments to the holders of certain of our securities or vice versa, and such payments may be unsecured or prefunded on some basis and may be paid on a current or on a deferred basis. The stock purchase contracts may require holders to secure their obligations thereunder in a specified manner and may provide for the prepayment of all or part of the consideration payable by holders in connection with the purchase of the underlying security or other property pursuant to the stock purchase contracts.

The securities related to the stock purchase contracts may be pledged to a collateral agent for our benefit pursuant to a pledge agreement to secure the obligations of holders of stock purchase contracts to purchase the underlying security or property under the related stock purchase contracts. The rights of holders of stock purchase contracts to the related pledged securities will be subject to our security interest therein created by the pledge agreement. No holder of stock purchase contracts will be permitted to withdraw the pledged securities related to such stock purchase contracts from the pledge arrangement.

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DESCRIPTION OF WARRANTS

The following description, together with the additional information we may include in any applicable prospectus supplement, summarizes the material terms and provisions of the warrants that we may offer under this prospectus and the related warrant agreements and warrant certificates. While the terms summarized below will apply generally to any warrants that we may offer, we will describe the particular terms of any series of warrants in more detail in the applicable prospectus supplement. The terms of any warrants offered under a prospectus supplement may differ from the terms described below.

We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from reports that we file with the SEC, the form of warrant agreement, including a form of warrant certificate, that describes the terms of the particular warrants we are offering before the issuance of the related warrants. The following summaries of material provisions of the warrants and the warrant agreements are subject to, and qualified in their entirety by reference to, all the provisions of the warrant agreement and warrant certificate applicable to the warrants that we may offer under this prospectus. We urge you to read the applicable prospectus supplements related to the warrants that we may offer under this prospectus, as well as any related free writing prospectuses, and the complete warrant agreements and warrant certificates that contain the terms of the warrants.

General

We may issue warrants for the purchase of common stock in one or more series. We may issue warrants independently or together with common stock, and the warrants may be attached to or separate from these securities.

We may evidence each series of warrants by warrant certificates that we will issue under a separate agreement. We may enter into a warrant agreement with a warrant agent. We will indicate the name and address and other information regarding the warrant agent in the applicable prospectus supplement relating to a particular series of warrants.

If we decide to issue warrants pursuant to this prospectus, we will specify in a prospectus supplement the terms of the warrants, including, if applicable, the following:

the offering price and aggregate number of warrants offered;

the designation and terms of the securities with which the warrants are issued and the number of warrants issued with each such security or each principal amount of such security;

the date on and after which the warrants and the related securities will be separately transferable;

the number of shares of stock purchasable upon the exercise of one warrant and the price at which these shares may be purchased upon such exercise;

the effect of any merger, consolidation, sale or other disposition of our business on the warrant agreement and the warrants;

the terms of any rights to redeem or call the warrants;

any provisions for changes to or adjustments in the exercise price or number of securities issuable upon exercise of the warrants;

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the dates on which the right to exercise the warrants will commence and expire;

the manner in which the warrant agreement and warrants may be modified;

a discussion of any material U.S. federal income tax considerations of owning or exercising the warrants;

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the terms of the securities issuable upon exercise of the warrants; and

any other specific terms, preferences, rights or limitations of or restrictions on the warrants.

Before exercising their warrants, holders of warrants may have no rights of holders of the securities purchasable upon such exercise, including, in the case of warrants to purchase our common stock, the right to receive dividends, if any, or payments upon our liquidation, dissolution or winding up or to exercise voting rights, if any.

Exercise of Warrants

Each warrant will entitle the holder to purchase shares of our common stock at the exercise price that we describe in the applicable prospectus supplement. Holders of the warrants may exercise the warrants at any time up to the specified time on the expiration date that we set forth in the applicable prospectus supplement. After the close of business on the expiration date, unexercised warrants will become void.

Holders of the warrants may exercise the warrants by delivering the warrant certificate representing the warrants to be exercised together with specified information, and paying the required amount to the warrant agent in immediately available funds, as provided in the applicable prospectus supplement. If we so indicate in the applicable prospectus supplement, the warrants may also provide that they may be exercised on a cashless or net basis. We will set forth on the reverse side of the warrant certificate, if applicable, and in the applicable prospectus supplement the information that the holder of the warrant will be required to deliver to us or a warrant agent in order to exercise a warrant.

Upon receipt of the required payment and the warrant certificate properly completed and duly executed at our offices, the corporate trust office of a warrant agent or any other office indicated in the applicable prospectus supplement, we will issue and deliver the shares of our common stock purchasable upon such exercise. If fewer than all of the warrants represented by the warrant certificate are exercised, then we will issue a new warrant certificate for the remaining amount of warrants. If we so indicate in the applicable prospectus supplement, holders of the warrants may surrender shares of our common stock as all or part of the exercise price for warrants.

Enforceability of Rights by Holders of Warrants

Any warrant agent will act solely as our agent under the applicable warrant agreement and will not assume any obligation or relationship of agency or trust with any holder of any warrant. A single bank or trust company may act as warrant agent for more than one issue of warrants. A warrant agent will have no duty or responsibility in case of any default by us under the applicable warrant agreement or warrant, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a warrant may, without the consent of the related warrant agent or the holder of any other warrant, enforce by appropriate legal action its right to exercise, and receive the securities purchasable upon exercise of, its warrants.

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DESCRIPTION OF DEBT SECURITIES

The following description, together with the additional information we may include in any applicable prospectus supplement and in any related free writing prospectuses, summarizes the material terms and provisions of the debt securities that we may offer under this prospectus. While the terms summarized below will apply generally to any debt securities that we may offer, we will describe the particular terms of any debt securities in more detail in the applicable prospectus supplement. The terms of any debt securities offered under a prospectus supplement may differ from the terms described below.

We have filed, as an exhibit to the registration statement of which this prospectus is a part, the form of indenture pursuant to which the debt securities will be issued and will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from reports that we file with the SEC, a form of debt security that describes the terms of the particular debt securities we are offering before the issuance of the related debt securities. We may issue debt securities from time to time in one or more distinct series. The debt securities may be senior debt securities or subordinated debt securities. Senior debt securities may be issued under a senior indenture and subordinated debt securities may be issued under a subordinated indenture. If we issue debt securities pursuant to an indenture, we will specify the trustee under such indenture in the applicable prospectus supplement. We will include in a supplement to this prospectus the specific terms of debt securities being offered, including the terms, if any, on which debt securities may be convertible into or exchangeable for common stock or other debt securities. The statements and descriptions in this prospectus or in any prospectus supplement regarding provisions of debt securities and any indentures are summaries of those provisions, do not purport to be complete and are subject to, and are qualified in their entirety by reference to, all of the provisions of the debt securities and the indentures (including any amendments or supplements we may enter into from time to time which are permitted under the debt securities or any indenture).

Unless otherwise specified in a prospectus supplement, the debt securities will be our direct unsecured obligations. Any debt securities designated as senior will rank equally with any of our other senior and unsubordinated debt. Any debt securities designated as subordinated will be subordinate and junior in right of payment to any senior indebtedness. There may be subordinated debt securities that are senior or junior to other series of subordinated debt securities.

The applicable prospectus supplement will set forth the terms of the debt securities or any series thereof, including, if applicable:

the title of the debt securities and whether the debt securities will be senior debt securities or subordinated debt securities;

any limit upon the aggregate principal amount of the debt securities;

the date or dates on which the principal amount of the debt securities will mature;

if the debt securities bear interest, the rate or rates at which the debt securities bear interest, or the method for determining the interest rate, and the date or dates from which interest will accrue;

if the debt securities bear interest, the dates on which interest will be payable, or the method for determining such dates, and the regular record dates for interest payments;

the place or places where the payment of principal, any premium and interest will be made, where the debt securities may be surrendered for transfer or exchange and where notices or demands to or upon us may be served;

any optional redemption provisions, which would allow us to redeem the debt securities in whole or in part;

any sinking fund or other provisions that would obligate us to redeem, repay or purchase the debt securities;

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if the currency in which the debt securities will be issuable is United States dollars, the denominations in which any registered securities will be issuable, if other than denominations of \$1,000 and any integral multiple thereof;

if other than the entire principal amount, the portion of the principal amount of debt securities which will be payable upon a declaration of acceleration of the maturity of the debt securities;

the events of default and covenants relevant to the debt securities, including, the inapplicability of any event of default or covenant set forth in the indenture relating to the debt securities, or the applicability of any other events of defaults or covenants in addition to the events of default or covenants set forth in the indenture relating to the debt securities;

the name and location of the corporate trust office of the applicable trustee under the indenture for such debt securities;

if other than United States dollars, the currency in which the debt securities will be paid or denominated;

if the debt securities are to be payable, at our election or the election of a holder of the debt securities, in a currency other than that in which the debt securities are denominated or stated to be payable, the terms and conditions upon which that election may be made, and the time and manner of determining the exchange rate between the currency in which the debt securities are denominated or stated to be payable and the currency in which the debt securities are to be so payable;

the designation of the original currency determination agent, if any;

if the debt securities are issuable as indexed securities, the manner in which the amount of payments of principal, any premium and interest will be determined;

if the debt securities do not bear interest, the dates on which we will furnish to the applicable trustee the names and addresses of the holders of the debt securities;

any provisions for the satisfaction and discharge or defeasance or covenant defeasance of the indenture under which the debt securities are issued;

the date as of which any bearer securities and any global security will be dated if other than the date of original issuance of the first debt security of a particular series to be issued;

whether and under what circumstances we will pay additional amounts to non-United States holders in respect of any tax assessment or government charge;

whether the debt securities will be issued in whole or in part in the form of a global security or securities and, in that case, any depository and global exchange agent for the global security or securities, whether the global form shall be permanent or temporary;

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if debt securities are to be issuable initially in the form of a temporary global security, the circumstances under which the temporary global security can be exchanged for definitive debt securities and whether the definitive debt securities will be registered securities and provisions relating to the payment of interest in respect of any portion of a global security payable in respect of an interest payment date prior to the exchange date;

the extent and manner to which payment on or in respect of debt securities will be subordinated to the prior payment of our other liabilities and obligations;

whether payment of any amount due under the debt securities will be guaranteed by one or more guarantors, including one or more of our subsidiaries;

whether the debt securities will be secured or unsecured;

whether the debt securities will be convertible and the terms of any conversion provisions;

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the forms of the debt securities;

a discussion of any material United States federal income tax consequences of owning and disposing of the debt securities; and

any other terms of the debt securities, which terms shall not be inconsistent with the requirements of the Trust Indenture Act of 1939, as amended.

This prospectus is part of a registration statement that provides that we may issue debt securities from time to time in one or more series under one or more indentures, in each case with the same or various maturities, at par or at a discount. Unless indicated in a prospectus supplement, we may issue additional debt securities of a particular series without the consent of the holders of the debt securities of such series outstanding at the time of the issuance. Any such additional debt securities, together with all other outstanding debt securities of that series, will constitute a single series of debt securities under the applicable indenture.

We intend to disclose any restrictive covenants for any issuance or series of debt securities in the applicable prospectus supplement.

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PLAN OF DISTRIBUTION

We or the selling stockholders may offer and sell the securities being offered hereby in one or more of the following ways from time to time:

to or through underwriters, brokers or dealers;

directly to one or more other purchasers;

through a block trade in which the broker or dealer engaged to handle the block trade will attempt to sell the common stock as agent, but may position and resell a portion of the block as principal to facilitate the transaction;

through agents on a best-efforts basis; or

otherwise through a combination of any of the above methods of sale.

The selling stockholders may also sell their shares of common stock under Rule 144 of the Securities Act, or any other available exemption, rather than this prospectus.

In addition, we or any selling stockholder may enter into option, share lending or other types of transactions that require us or such selling stockholder to deliver shares of common stock to an underwriter, broker or dealer, who will then resell or transfer the shares of common stock under this prospectus. We or any selling stockholder may enter into hedging transactions with respect to our securities. For example, we or such selling stockholder may:

enter into transactions involving short sales of the shares of common stock by underwriters, brokers or dealers;

sell shares of common stock short and deliver the shares to close out short positions;

enter into option or other types of transactions that require us to deliver shares of common stock to an underwriter, broker or dealer, who will then resell or transfer the shares of common stock under this prospectus; or

loan or pledge the shares of common stock to an underwriter, broker or dealer, who may sell the loaned shares or, in the event of default, sell the pledged shares.

The prospectus supplement with respect to each series of securities will state the terms of the offering of the securities, including:

the offering terms, including the name or names of any underwriters, dealers or agents;

the purchase price of the securities and the net proceeds to be received by us from the sale;

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any underwriting discounts or agency fees and other items constituting underwriters' or agents' compensation;

any public offering price;

any discounts or concessions allowed or reallocated or paid to dealers.

If we or any selling stockholders use underwriters or dealers in the sale, the common stock will be acquired by the underwriters or dealers for their own account and may be resold from time to time in one or more transactions, including:

at a fixed price or prices, which may be changed;

at market prices prevailing at the time of sale;

at prices related to such prevailing market prices;

at varying prices determined at the time of sale; or

at negotiated prices.

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If underwriters are used in the sale of any securities, the securities may be offered either to the public through underwriting syndicates represented by managing underwriters, or directly by underwriters. Generally, the underwriters' obligations to purchase the securities will be subject to certain conditions precedent. The underwriters will be obligated to purchase all of the securities if they purchase any of the securities.

If indicated in an applicable prospectus supplement, we or selling stockholders may sell the common stock through agents from time to time. The applicable prospectus supplement will name any agent involved in the offer or sale of the securities and any commissions that we or any selling security holders pay to them. Generally, any agent will be acting on a best efforts basis for the period of its appointment. We or any selling stockholder may authorize underwriters, dealers or agents to solicit offers by certain purchasers to purchase the common stock at the public offering price set forth in the applicable prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. The delayed delivery contracts will be subject only to those conditions set forth in the applicable prospectus supplement, and the applicable prospectus supplement will set forth any commissions we or any selling stockholders pay for solicitation of these delayed delivery contracts.

Agents, underwriters and other third parties described above may be entitled to indemnification by us and by any selling stockholder against certain civil liabilities under the Securities Act, or to contribution with respect to payments which the agents or underwriters may be required to make in respect thereof. Agents, underwriters and such other third parties may be customers of, engage in transactions with, or perform services for us or any selling security holder in the ordinary course of business.

Our common stock is listed on the New York Stock Exchange under the symbol NOR. Common stock sold under this prospectus will be listed on the New York Stock Exchange, upon official notice of issuance. Any underwriters to whom securities are sold by us for public offering and sale may make a market in the securities, but such underwriters will not be obligated to do so and may discontinue any market making at any time without notice.

In compliance with the guidelines of the Financial Industry Regulatory Authority (FINRA), the aggregate maximum discount, commission or agency fees or other items constituting underwriting compensation to be received by any FINRA member or independent broker-dealer will not exceed 8% of any offering pursuant to this prospectus and any applicable prospectus supplement or pricing supplement, as the case may be; however, it is anticipated that the maximum commission or discount to be received in any particular offering of securities will be significantly less than this amount.

If 5% or more of the net proceeds of any offering of securities made under this prospectus will be received by a FINRA member participating in the offering or affiliates or associated persons of such FINRA member, the offering will be conducted in accordance with FINRA Rule 5121 (or any successor rule).

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LEGAL MATTERS

Unless otherwise specified in a prospectus supplement accompanying this prospectus, Wachtell, Lipton, Rosen & Katz will pass upon for us the validity of the securities offered hereby.

EXPERTS

The consolidated financial statements of Noranda Aluminum Holding Corporation appearing in Noranda Aluminum Holding Corporation's Annual Report (Form 10-K) for the year ended December 31, 2010, and the effectiveness of Noranda Aluminum Holding Corporation's internal control over financial reporting as of December 31, 2010 have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their reports thereon, included therein, and incorporated herein by reference, which, as to the year 2008, is based in part on the report of Deloitte & Touche LLP, independent registered public accounting firm, and Deloitte & Touche Chartered Accountants, Jamaica, independent auditors. The consolidated financial statements referred to above are incorporated herein by reference in reliance upon such reports given on the authority of such firms as experts in accounting and auditing.

The financial statements of Gramercy Alumina LLC for the year ended December 31, 2008 (not presented separately) have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report, which is incorporated herein by reference from the Annual Report on Form 10-K of Noranda Aluminum Holding Corporation for the year ended December 31, 2010 and has been so incorporated in reliance upon the report of such firm given upon their authority as experts in accounting and auditing.

The financial statements of St. Ann Bauxite Limited and its subsidiary for the year ended December 31, 2008 (not presented separately) have been audited by Deloitte & Touche Chartered Accountants, Jamaica, an independent auditing firm, as stated in their report, which is incorporated herein by reference from the Annual Report on Form 10-K of Noranda Aluminum Holding Corporation for the year ended December 31, 2010 and has been so incorporated in reliance upon the report of such firm given upon their authority as experts in accounting and auditing.

INDEMNIFICATION FOR SECURITIES ACT LIABILITIES

Subject to certain limitations, our articles of incorporation eliminate the liability of our directors to us or our shareholders for monetary damages for any action taken, or any failure to take action, as a director to the extent permitted under the General Corporation Law of the State of Delaware (the "DGCL"). Our bylaws require us, subject to certain limitations, to indemnify and hold harmless any director or officer who was or is a party or is threatened to be made a party, to any threatened, pending, or completed action because the person is or was our director or officer against liability incurred in such proceeding, and to advance expenses to our officers and directors who are parties to an action for which indemnification may be sought. We have obtained an insurance policy covering our directors and officers against losses arising from any claim against them as such for wrongful acts or omissions, subject to certain limitations. These policies include coverage for liabilities arising under the Securities Act of 1933.

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers or persons controlling the registrant pursuant to the foregoing provisions, the registrant has been informed that in the opinion of the SEC such indemnification is against public policy as expressed in the Act and is therefore unenforceable.

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10,000,000 Shares

Noranda Aluminum Holding Corporation
Common Stock

PROSPECTUS SUPPLEMENT

March 11, 2014