



DIVISION OF
CORPORATION FINANCE
MAIL STOP 7010

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549-7010

December 27, 2006

Ms. Anne H. Lloyd
Senior Vice President and Chief Financial Officer
Martin Marietta Materials, Inc.
2710 Wycliff Road
Raleigh, NC 27607-3033

Re: Martin Marietta Materials, Inc.
Form 10-K for the Fiscal Year Ended December 31, 2005
Filed February 27, 2006
File No. 001-12744

Dear Ms. Lloyd:

We have reviewed your Form 10-K for the Fiscal Year Ended December 31, 2005 and have the following comments. We have limited our review of your filing to those issues we have addressed in our comments. Where indicated, we think you should revise your document in response to these comments. If you disagree, we will consider your explanation as to why our comment is inapplicable or a revision is unnecessary. Please be as detailed as necessary in your explanation. In some of our comments, we may ask you to provide us with information so we may better understand your disclosure. After reviewing this information, we may raise additional comments.

Please understand that the purpose of our review process is to assist you in your compliance with the applicable disclosure requirements and to enhance the overall disclosure in your filing. We look forward to working with you in these respects. We welcome any questions you may have about our comments or any other aspect of our review. Feel free to call us at the telephone numbers listed at the end of this letter.

Form 10-K for the Fiscal Year Ended December 31, 2005

Business, page 4

Properties, page 23

1. We note that in aggregate your "Hard Rock" reserve estimates have grown modestly as compared with your previous year's reserve estimates. However,

when we compare this year's reserves with the previous year's reserves at a state level, we notice significant volatility both positive and negative between the two sets of estimates. In the future, please provide additional narrative to explain the reasons for the significant changes in reported reserves, as disclosed at the state level, and provide an additional column for the previous year reserve estimates at the state level to your reserve table.

Closing Comments

As appropriate, please amend your filing and respond to these comments within 10 business days or tell us when you will provide us with a response. You may wish to provide us with marked copies of the amendment to expedite our review. Please furnish a cover letter with your amendment that keys your responses to our comments and provides any requested information. Detailed cover letters greatly facilitate our review. Please understand that we may have additional comments after reviewing your amendment and responses to our comments.

We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing includes all information required under the Securities Exchange Act of 1934 and that they have provided all information investors require for an informed investment decision. Since the company and its management are in possession of all facts relating to a company's disclosure, they are responsible for the accuracy and adequacy of the disclosures they have made.

In connection with responding to our comments, please provide, in writing, a statement from the company acknowledging that:

- the company is responsible for the adequacy and accuracy of the disclosure in the filing;
- staff comments or changes to disclosure in response to staff comments do not foreclose the Commission from taking any action with respect to the filing; and
- the company may not assert staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

In addition, please be advised that the Division of Enforcement has access to all information you provide to the staff of the Division of Corporation Finance in our review of your filing or in response to our comments on your filing.

Ms. Anne H. Lloyd
Martin Marietta Materials, Inc.
December 27, 2006
Page 3

You may contact Roger Baer, Mining Engineer, at (202) 551-3705, if you have questions regarding the comment. Please contact me at (202) 551-3684 with any other questions.

Sincerely,

April Sifford
Branch Chief