

Mail Stop 6010

April 6, 2007

VIA U.S. MAIL and FACSIMILE

Timothy Morse
Altera Corporation
Chief Financial Officer
101 Innovation Drive
San Jose, CA 95134

RE: Altera Corporation
Form 10-K for the fiscal year ended December 29, 2006
Filed February 27, 2007
Form 10-K/A for the year ended December 30, 2005
Form 8-K dated February 13, 2007
File No. 0-16617

Dear Mr. Morse:

We have reviewed your filings 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.

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Form 10-K/A for the year ended December 30, 2005

Consolidated Financial Statements

Note 3. Restatement of Previously Issued Financial Statements, page 76

1. Please tell us where you have disclosed the restated stock compensation cost that should have been reported for each fiscal year as required by paragraph 45.c.2 of FASB Statement No. 123. Refer to the sample letter sent in response to inquiries related to filing restated financial statements for errors in accounting for stock option grants, available at <http://www.sec.gov/divisions/corpfin/guidance/oilgasltr012007.htm>.
2. Please tell us where you have presented restated information required by Item 302 of Regulation S-X for the balance sheets and statements of income in a level of detail consistent with Regulation S-X Article 10-01 (A) (2) and (3) and appropriate portions of 10-01 (b) with columns labeled "restated." Please refer to the sample letter sent in response to inquiries related to filing restated financial statements for errors in accounting for stock option grants, available at <http://www.sec.gov/divisions/corpfin/guidance/oilgasltr012007.htm>.

Form 8-K dated February 13, 2007

3. We note that you present your non-GAAP measures and reconciliation in the form of non-GAAP statements of income. These formats may be confusing to investors as they also reflect numerous non-GAAP measures, such as non-GAAP cost of sales, non-GAAP research and development, non-GAAP selling, general and administrative expenses and non-GAAP income from operations, which have not been described to investors. In fact, it appears that management does not use all of these non-GAAP measures but they are shown here as a result of the presentation format. Please note that Instruction 2 to Item 2.02 of Form 8-K requires that when furnishing information under this item you must provide all the disclosures required by paragraph (e)(1)(i) of Item 10 of Regulation S-K and Question 8 of the FAQ Regarding the Use of Non-GAAP Financial Measures dated June 13, 2003, including a reconciliation to the directly comparable GAAP measure for *each* non-GAAP measure presented and explain why you believe the measures provide useful information to investors.
 - To eliminate investor confusion, please remove the non-GAAP statements of income from all future filings and instead provide only those non-GAAP measures used by management that you wish to highlight for investors, with the appropriate reconciliations and disclosures.

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- Please note that in the event that your Form 8-K is incorporated by reference into a 33 Act registration statement, we may have additional questions relating to the appropriateness of this information being included in a document filed with, and not just furnished to, the Commission. At that time, we may request an amendment to the Form 8-K.

As appropriate, please respond to these comments within 10 business days or tell us when you will provide us with a response. Please furnish a cover letter with your response 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 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 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.

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You may contact Kristin Lochhead at (202) 551-3664 or me at (202) 551-3676 if you have questions. In this regard, please do not hesitate to contact Martin James, Senior Assistant Chief Accountant, at (202) 551-3671 with any other questions.

Sincerely,

Brian Cascio
Accounting Branch Chief