

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

Mail Stop 3030

March 3, 2009

Via U S Mail and FAX [(510) 623-9686]

Gary L. Larson Chief Financial Officer Aehr Test Systems 400 Kato Terrace Fremont, California 94539

Re: Aehr Test Systems Form 10-K for the fiscal year ended May 31, 2008 File No. 0-22893

Dear Mr. Larson:

We have reviewed your filings and have the following comments. We have limited our review to only your financial statements and related disclosures, and do not intend to expand our review to other portions of your documents. Where indicated, we think you should revise your documents 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 on 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 for the fiscal year May 31, 2008 Form 10-Q for the quarters August 31 and November 30, 2008

Item 9A Controls and Procedures, page 55

1. We note your disclosure in Item 9.A. on page 55 that "based upon that evaluation, the Chief Executive Officer and the Chief Financial Officer have concluded that our disclosure controls and procedures are effective to ensure that information we are required to disclose in reports that we file or submit under the Securities Exchange Act of 1934 is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms" The language that is currently included after the word "effective" in your disclosure appears to be superfluous, since the meaning of "disclosure controls and procedures" is established by Rule 13a-15(e) of the Exchange Act. Please remove the language in your future filings or revise the disclosure so that the language that appears after the word "effective" is substantially similar in all material respects to the language that appears in the entire two-sentence definition of "disclosure controls and procedures" set forth in Rule 13a-15(e).

Exhibits 31.1 and 31.2

- 2. We note that you omitted a portion of the introductory language in paragraph 4 of Item 601(b)(31)(i) of Regulation S-K and that you omitted paragraph 4(b) of Item 601(b)(31)(i) of Regulation S-K, both of which refer to internal control over financial reporting. Please file amendments to the Form 10-K and the Form 10-Q for the first and second quarter of fiscal 2009 to include certifications that include the required paragraphs. You may file abbreviated amendments to these documents that include a cover page, explanatory note, signature page and paragraphs 1, 2, 4 and 5 of the certification.
- 3. In addition, in future filings, including any amendments, please ensure that the wording of the certification is exactly the same as that provided at Item 601(b)(31)(i) of Regulation S-K. For example, in the Forms 10-K and 10-Qs, we note that you replaced the word "report" with the words "Annual Report" and "Quarterly Report", respectively. In the amendments, please revise to ensure that the certifications are consistent with the required wording.

Mr. Gary L. Larson

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As appropriate, please amend your filings 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 amendments to expedite our review. Please furnish a cover letter with your amendments 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 amendments and responses to our comments.

We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing reviewed by the staff 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.

You may contact Jeanne Bennett at (202) 551-3606, or me at (202) 551-3676, if you have questions regarding our comments. In our absence you may contact Martin F. James, Senior Assistant Chief Accountant at (202) 551-3671.

Sincerely,

Brian Cascio Accounting Branch Chief