



DIVISION OF
CORPORATION FINANCE

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

March 28, 2012

Via E-mail

Mr. John W. Hohener
Chief Financial Officer
Microsemi Corporation
One Enterprise
Aliso Viejo, California 92656

RE: **Microsemi Corporation**
Form 10-K for the fiscal year ended October 2, 2011
Filed November 23, 2011
File No. 000-08866

Dear Mr. Hohener:

We have completed our review of your filings. We remind you that our comments or changes to disclosure in response to our comments do not foreclose the Commission from taking any action with respect to the company or the filings 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. We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filings to be certain that the filings include the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ Jeffrey Jaramillo

Jeffrey Jaramillo
Accounting Branch Chief