

MICROSEMI CORP  
Form 8-K  
April 28, 2011

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

**FORM 8-K**

**CURRENT REPORT  
Pursuant to Section 13 OR 15(d) of  
The Securities Exchange Act of 1934**

Date of Report (Date of earliest event reported) **April 28, 2011**

**Microsemi Corporation**

(Exact name of registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction  
of incorporation)

**0-8866**  
(Commission File Number)

**95-2110371**  
(IRS Employer  
Identification No.)

**2381 Morse Avenue, Irvine, California**  
(Address of principal executive offices)

**92614**  
(Zip Code)

**(949) 221-7100**

Registrant's telephone number, including area code

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(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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**INFORMATION TO BE INCLUDED IN THE REPORT**

**Item 2.02. Results of Operations and Financial Condition.**

On April 28, 2011 the Registrant issued a press release, a copy of which is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

**Item 9.01. Financial Statements and Exhibits.**

**Exhibit No.    Description**

99.1            Press release dated April 28,  
2011.

**SIGNATURE**

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

**Microsemi Corporation**

Date: April 28, 2011

**/s/ JOHN W. HOHENER**

John W. Hohener

*Executive Vice President, Chief Financial Officer, Treasurer and Secretary*

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**EXHIBIT INDEX**

**Exhibit No.    Description**

99.1            Press release dated April 28,  
2011.