MICROSEMI CORP Form 8-K January 21, 2010

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) January 21, 2010

Microsemi Corporation

(Exact name of registrant as specified in its charter)

DE (State or other jurisdiction of incorporation) **0-8866** (Commission File Number) **95-2110371** (IRS Employer Identification No.)

2381 Morse Avenue, Irvine, California92614(Address of principal executive offices)(Zip Code)Registrant's telephone number, including area code:(949) 221-7100

(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))

Item 2.02. Results of Operations and Financial Condition.

On January 21, 2010 the Registrant issued a press release, a copy of which is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

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Item 9.01. Financial Statements and Exhibits.

<u>Exhibit No.</u>	Description
99.1	Press release dated January 21,

99.1 2010.

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

(Registrant)

January 21, 2010

/s/ JOHN W. HOHENER

(Date)

John W. Hohener Vice President, Chief Financial Officer, Treasurer and Secretary

EXHIBIT INDEX

Exhibit No. **Description**

Press release dated January 21, 99.1 2010.