MICROSEMI CORP Form 8-K August 20, 2009

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): August 20, 2009

Microsemi Corporation

(Exact Name of Registrant as Specified in its Charter)

Delaware (State or Other Jurisdiction 000-08866 (Commission File Number) 95-2110371 (I.R.S. Employer

of Incorporation)

Identification No.)

2381 Morse Avenue

Irvine, California 92614
(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 240.425)
- " 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 7.01 Regulation FD Disclosure.

On August 20, 2009, Microsemi Corporation issued a press release announcing the sale of the assets of Semicoa to a third party and the settlement by the United States Department of Justice of its civil action against Microsemi. The text of the press release, which is furnished as Exhibit 99.1 hereto, is incorporated herein by reference.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit

Number Description

99.1 Press Release of Microsemi Corporation dated August 20, 2009.

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.

Date: August 20, 2009

Microsemi Corporation

(Registrant)

By:

/s/ John W. Hohener
John W. Hohener
Vice President, Chief Financial Officer,

Treasurer and Secretary