

Item 9.01. Financial Statements and Exhibits.

<u>Exhibit No.</u>	<u>Description</u>
99.1	Press release dated January 24, 2008.

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.

January 24, 2008

(Date)

Microsemi Corporation

(Registrant)

/s/ DAVID R. SONKSEN

David R. Sonksen

Executive Vice President, Chief Financial Officer, Treasurer and Secretary

EXHIBIT INDEX

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