

ANDERSON THOMAS ROBERT
 Form 4
 October 03, 2007

FORM 4

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

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
 ANDERSON THOMAS ROBERT

2. Issuer Name and Ticker or Trading Symbol
 MICROSEMI CORP [MSCC]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 2381 MORSE AVENUE
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 10/01/2007

Director 10% Owner
 Officer (give title below) Other (specify below)

IRVINE, CA 92614
 (City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
			Code	V	Amount or Price		
Microsemi Common Stock <u>(1)</u>	10/01/2007		A		7,000 \$ 28.5	D	
Microsemi Common Stock <u>(2)</u> <u>(3)</u>	10/03/2007		M		2,500 \$ 8.085	D	
Microsemi Common Stock <u>(3)</u>	10/03/2007		S		2,500 \$ 28.7	D	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	Amount or Number of Shares
Non-Qual Stock Option Right to Buy	\$ 8.085	10/03/2007		M	2,500	09/28/2003 09/28/2013	Common Stock	2,500

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
ANDERSON THOMAS ROBERT 2381 MORSE AVENUE IRVINE, CA 92614		X		

Signatures

Debbie Weber, Attorney-in-Fact for Thomas Robert Anderson 10/03/2007

__Signature of Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

(1) These shares were awarded on October 1, 2007.

(2) This Non-Qualified Stock Option was granted pursuant to Microsemi Corporation's 1987 Stock Plan, which satisfies the requirements of Rule 16b-3. The option becomes exercisable immediately.

(3) Sale executed in accordance with 10b5-1 Program adopted December 12, 2006.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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