

MICROSEMI CORP  
Form 4  
August 13, 2008

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
Expires: January 31, 2005  
Estimated average burden hours per response... 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**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 \*  
**HOLTRUST JOHN M**

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

IRVINE 92614

(City) (State) (Zip)

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

3. Date of Earliest Transaction  
(Month/Day/Year)  
08/11/2008

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
Senior VP of Human Resources

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 <sup>(1)</sup> <sub>(2)</sub> | 08/11/2008                           |  | M                              |   | 5,000 A \$ 7.055  | 28,334   | D                                 |
| Microsemi Common Stock <sup>(2)</sup>                | 08/11/2008                           |  | S                              |   | 5,000 D \$ 26.98  | 23,334   | D                                 |

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

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SEC 1474 (9-02)

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**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 Acquired (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) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
| Non-Qual Option to Buy Common Stock <sup>(1)</sup> | \$ 7.055   | 08/11/2008                           |  | M                              | 5,000   | 06/17/2004 06/17/2013                                    | Common Stock 5,000  |

## Reporting Owners

| Reporting Owner Name / Address                       | Relationships |           |                              |       |
|--|---------------|-----------|------------------------------|-------|
|  | Director      | 10% Owner | Officer                      | Other |
| HOLTRUST JOHN M<br>2381 MORSE AVENUE<br>IRVINE 92614 |               |           | Senior VP of Human Resources |       |

## Signatures

Debbie Weber, Attorney-in-Fact for John M. Holtrust  
 \*\*Signature of Reporting Person  
 08/13/2008  
 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) 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 in four equal installments, commencing one year after the date of the grant.
- (2) Sale executed in accordance with 10b5-1 Program for Microsemi Stock Adopted June 13, 2008.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.