MICROSEMI CORP

Form 4

August 21, 2008

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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if no longer subject to Section 16.

Check this box

Form 4 or Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940

See Instruction 1(b).

(Print or Type Responses)

| 1. Name and Address of Reporting Person * BRANDI RALPH | | | 2. Issuer Name and Ticker or Trading Symbol MICROSEMI CORP [MSCC] | | | | ' 5 | 5. Relationship of Reporting Person(s) to Issuer | | | |
|--|------------------------------------|-------------------|---|---|-------------|---|------------------------|--|--|---|--|
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction | | | | (Check all applicable) | | | | |
| 2381 MORSE AVENUE | | | (Month/Day/Year) 08/20/2008 | | | | | Director 10% Owner _X Officer (give title Other (specify lelow) Executive Vice President & COO | | | |
| (Street) | | | 4. If Amendment, Date Original | | | | 6. | 6. Individual or Joint/Group Filing(Check | | | |
| IRVINE, CA | | | | | _ | Applicable Line) X_ Form filed by One Reporting Person Form filed by More than One Reporting Person | | | | | |
| (City) | (State) | (Zip) | Table | e I - Non-D | erivative S | Securi | ities Acquir | ed, Disposed of, o | or Beneficially | y Owned | |
| 1.Title of Security (Instr. 3) | 2. Transaction D (Month/Day/Yea | ar) Execution any | med on Date, if Day/Year) | 3. Transaction Code (Instr. 8) | | ed of | | 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 Indirect Beneficial Ownership (Instr. 4) | |
| Common Stock (2) | 08/20/2008 | | | M | 10,000 | A | \$ 7.055 | 110,000 | D | | |
| Microsemi Common Stock (1) | 08/20/2008 | | | S | 10,000 | D | \$ 26.5518 | 100,000 | D | | |

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

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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. Transactio Code (Instr. 8) | 5. Number of orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amou Underlying Secur (Instr. 3 and 4) | |
|--|---|--------------------------------------|---|--|---|--|--------------------|---|------------------------|
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title | Am or Nu of S |
| Non-Qualified Stock Option to Buy Common Stock (2) | \$ 7.055 | 08/20/2008 | | M | 10,000 | 06/17/2004 | 06/17/2013 | Common Stock | 10 |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

BRANDI RALPH

2381 MORSE AVENUE Executive Vice President & COO

IRVINE, CA 92614

Signatures

Debbie Weber, Attorney-in-Fact for Ralph
Brandi
08/21/2008

**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) Sale executed in accordance with 10B5-1 Program adopted May 5, 2008.
- 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.

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.

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