MICROSEMI CORP

Form 4

September 21, 2007

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

Number: 3235-0287

OMB APPROVAL

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Check this box

Form 5 obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

| 1. Name and Address of Reporting Person * LEIBEL DENNIS R | | | 2. Issuer Name and Ticker or Trading Symbol MICROSEMI CORP [MSCC] | | | | Is | 5. Relationship of Reporting Person(s) to Issuer | | | |
|---|---|---------------------|--|-----------------|-----------------------------------|---|----------------|--|--|---|--|
| (Last) | st) (First) (Middle) | | | | | | | (Check all applicable) | | | |
| 2381 MORS | 3. Date of Earliest Transaction (Month/Day/Year) 09/20/2007 | | | | be | Director Officer (give titleX_ Other (specify below) Chairman of the Board | | | | | |
| | Filed(Month/Day/Year) | | | | Aj | 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person | | | | | |
| IRVINE, CA | | Ī | | | | Form filed by More than One Reporting Person | | | | | |
| (City) | (State) | (Zip) | Table | e I - Non-D | erivative | Secur | rities Acquir | red, Disposed of, | or Beneficiall | y Owned | |
| 1.Title of Security (Instr. 3) | 2. Transaction I (Month/Day/Ye | ear) Executi any | emed on Date, if /Day/Year) | Code (Instr. 8) | 4. Securionor Dispo (Instr. 3, | sed of 4 and (A) or | 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 Indirect Beneficial Ownership (Instr. 4) | |
| Microsemi Common Stock (1) | 09/20/2007 | | | M M | 5,000 | (D) | Price \$ 7.825 | 5,000 | D | | |
| Microsemi Common Stock (1) (2) | 09/20/2007 | | | S | 5,000 | D | \$ 26.2172 | 0 | 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. 5. Number Transaction Derivative Code Securities (Instr. 8) 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) | |
|---|---|---|---|---|---------|--|--------------------|---|--|
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| Non-Qual Stock Option Right to Buy (1) | \$ 7.825 | 09/20/2007 | | М | 5,000 | 05/14/2002 | 05/14/2012 | Common Stock | 5,000 |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

LEIBEL DENNIS R 2381 MORSE AVENUE IRVINE, CA 92614

Chairman of the Board

Signatures

Debbie Weber, Attorney-in-Fact for Dennis R.

Leibel 09/21/2007

**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) 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.
- (2) Sale in accordance with 10B5-1 Program adopted December 1, 2005.

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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