SONKSEN DAVID R

Form 4

August 15, 2006

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

OMB APPROVAL

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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).

Stock (2)

(Print or Type Responses)

1. Name and Ac	_	2. Issuer Name and Ticker or Trading					5. Relationship of Reporting Person(s) to Issuer				
SONKSEN DAVID R			Symbol MICROSEMI CORP [MSCC]					(Check all applicable)			
(Last)	(First) (M	liddle)	3. Date of Earliest Transaction					(Check an applicable)			
2381 MORS		(Month/Day/Year) 08/14/2006					Director 10% Owner _X_ Officer (give title Other (specify below) Executive Vice President & CFO				
	4	4. If Amendment, Date Original					6. Individual or Joint/Group Filing(Check				
								Applicable Line) _X_ Form filed by One Reporting Person			
IRVINE 926	14						P	Form filed by Moreon	ore than One Re	porting	
(City)	(State)	Zip)	Table	I - Non-De	erivative S	Securi	ities Acqui	red, Disposed of,	or Beneficial	ly Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)		Date, if	3. Transactic Code (Instr. 8)	(Instr. 3,	ispose 4 and (A) or	d of (D)	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) (2)	08/14/2006			M	3,000	A		60,682	D		
Microsemi Common	08/14/2006			S	3,000	D	\$ 24.964	57,682	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. Transactic Code (Instr. 8)	5. Number proof 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)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Option to Buy Common Stock (1) (2)	\$ 7.055	08/14/2006		M	3,000	06/17/2004	06/17/2013	Common Stock	3,000

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

SONKSEN DAVID R 2381 MORSE AVENUE IRVINE 92614

Executive Vice President & CFO

Signatures

Debbie Weber, Attorney-in-Fact for David R. Sonksen

08/15/2006

Date

**Signature of Reporting Person

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 incentive 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 adopted January 27, 2004.

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.

Reporting Owners 2