FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

vvasiniigtori,	D.C. 20040

STATEMENT	OE CHANGES	IN BENEFICIAL	OWNEDSHIE
STATEMENT	OF CHANGES	IN DENEFICIAL	OWNERSHIP

	OMB APPRO	VAL						
	OMB Number:	3235-0287						
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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>CAVE GEORGE H</u>															(Ch	eck all applic	cable)	g Person(s) to Iss 10% Ov Other (s		vner
(Last) 5005 EA	`	irst) WELL ROAD	(Middle)			Date 0 /08/2		est Trans	saction (action (Month/Day/Year)						helow)		el CC	below)	`
(Street) PHOENI (City)			85008 (Zip)		- 4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
1. Title of Security (Instr. 3) 2. Transa Date				saction	active Securities Acquaction action		3. Trar Cod	3. 4. Secur Transaction Dispose Code (Instr. 5)		4. Securi	of, or Beneficianties Acquired (A) or ed Of (D) (Instr. 3, 4 a			5. Amou Securitie Benefici	nt of	Form (D) or	m: Direct or Indirect	7. Nature of Indirect Beneficial Ownership		
									Cod	e v	V Amount			(A) or (D)	Price	Reported Transact (Instr. 3	ion(s)			(Instr. 4)
Common				01/10)/2007	7(1)			М			10,00	0	Α	\$1.5	29	,435		D	
Common				01/10)/2007	7(1)			S			10,00	0	D	\$8.2	5 19	19,435		D	
Common				01/08	3/2007	7(2)			М			10,00	0	A	\$1.2	5 29	29,435			
Common				01/08	3/2007	7(2)			S			10,000 D		\$8	19,435(3)			D		
		-	Гable II -									sed of, onvertil				Owned				
1. Title of Derivative Security (Instr. 3)	e Conversion Date Execution Date, Trans		Transa Code (l	ansaction of Ex ode (Instr. Derivative (M			Expirat	5. Date Exercisable and Expiration Date Month/Day/Year) 7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)			es I Security	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				
					Code	v	(A)	(D)	Date Exercis	able		kpiration ate	Title	e	Amount or Number of Shares					
Stock Option (right to buy)	\$1.25	01/08/2007 ⁽²⁾			M			10,000	02/05/2	004	02	2/05/2013	Con	nmon	10,000	\$0	68,000		D	
Stock Option (right to buy)	\$1.5	01/10/2007 ⁽¹⁾			М			10,000	09/09/1	999	09	9/09/2009	Con	nmon	10,000	\$0	35,667	7	D	

Explanation of Responses:

- 1. These transactions were made pursuant to the Reporting Person's existing Rule 10b5-1 plan. Option was originally granted effective September 9, 1999 under the Issuer's Stock Incentive Plan. Generally, the grant provides for vesting of approximately 8.4% on the grant date, and approximately pro rata vesting for each subsequent 6 month period. The grant was fully vested as of the date of this transaction. The exercise price was the closing price on the grant date.
- 2. These transactions were made pursuant to the Reporting Person's existing Rule 10b5-1 plan (i.e., a stock trading plan designed to comply with Rule 10b5-1 of the Securities Exchange Act of 1934, as amended). Option was originally granted effective February 5, 2003 under the Issuer's Stock Incentive Plan. Generally, the grant provides for pro rata vesting of 25% per year on each of the first through fourth anniversaries of the grant date. The exercise price was the closing price on the grant date.
- 3. Includes 500 shares acquired by the Reporting Person under the Issuer's Employee Stock Purchase Plan from October 1, 2006 through December 31, 2006.

Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an exhibit., cave2006poa.TXT

Judith A. Boyle, Attorney-in-Fact 01/10/2007

** Signature of Reporting Person Date

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

- * 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).

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

POWER OF ATTORNEY (G. Sonny Cave)

I hereby appoint Keith D. Jackson, Donald A. Colvin, and Judith A. Boyle, and each of them, attorney-in-fact for me, each with full power of substitution,

to prepare, execute and deliver on my behalf reports required to be filed by me pursuant to Section 16 of the Securities Exchange Act of 1934, as amended ("Section 16"), and Rule 144 and Rule 145 under the Securities Act of 1933 (singly or collectively ("Rule 144")). Among other things, each attorneyin-fact is authorized to file original reports (either electronically or otherwise), signed by me or on my behalf, on Forms 3, 4 and 5, and Form 144 with

the Securities and Exchange Commission, and to provide any necessary copies of such signed forms to The NASDAQ Stock Market and ON Semiconductor Corporation as

required by the rules under Section 16 and Rule 144 as in effect from time to time.

This power of attorney is effective from the date hereof until April 15, 2007, unless earlier revoked or terminated.

/s/ G. Sonny Cave G. Sonny Cave

Dated: March 15, 2006

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