FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPR	OVAL							
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>						2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ ONNN ]										eck all applic Directo	Reporting Person(s) to Issue ble) 10% Own give title Other (sp		ner	
	`	TOR (M/D A70	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 01/26/2006										below)				
(Street) PHOENI	IX AZ	Z	85008 (Zip)		4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)									Line	) 【 Form fi	or Joint/Group Filing (Check Applicable rm filed by One Reporting Person rm filed by More than One Reporting rson			
		Tab	le I - Nor	n-Deriv	vative	e Se	curit	ies A	cqu	iired, D		osed o	f, or	Bene	eficiall	y Owned				
1. Title of Security (Instr. 3)  2. Transa Date (Month/D				saction	ear)	2A. Deemed Execution Date, if any (Month/Day/Year)			3. Transact Code (In 8)	tion	4. Securities Acquired (A) Disposed Of (D) (Instr. 3,			(A) or	5. Amou Securitie Beneficia Owned F	nt of es ally following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Ì	Code	v	Amount	{	(A) or (D)	Price	Reported Transact (Instr. 3 a	tion(s)			(Instr. 4)
Common Stock 01/26/2					5/2006	2006(1)				М		5,000	,	A	\$1.25	21,325			D	
Common	Stock			01/26	5/2006	<b>5</b> (1)				S		5,000	)	D	\$7.5	16,	325		D	
		1	Table II -									sed of, onvertib				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution I if any (Month/Day	Date, Trans Code			of		Exp	Date Exerc Diration Da Onth/Day/\	ate		7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly Ov Fo Dii or (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Dat Exe	e ercisable		xpiration ate	Title	0 0	Amount or lumber of Shares					
Stock Option (right to buy)	\$1.25	01/26/2006			M			5,000	02/0	05/2004 <sup>(1)</sup>	0.3	2/05/2013	Comr		5,000	\$0	120,00	0	D	

## Explanation of Responses:

1. These transactions were made pursuant to the Reporting Person's existing Rule 10b5-1 plan dated August 3, 2005 (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.

## Remarks:

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

George H. Cave by Judith A. Boyle as Attorney-in-Fact

01/27/2006

\*\* 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 attorney-in-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, 2006, unless earlier revoked or terminated.

/s/ G. Sonny Cave G. Sonny Cave

Dated: March 1, 2005

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