FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).
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## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

**OMB APPROVAL** OMB Number: Estimated average burden hours per response: 0.5

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 ]									k all applic Directo	or		on(s) to Issuer  10% Owner  Other (specify	
(Last) 5005 EA	ast) (First) (Middle) 005 EAST MCDOWELL ROAD					3. Date of Earliest Transaction (Month/Day/Year) 02/01/2007									below)	r (give title ) G Counsel CO		below)	
(Street) PHOENIX AZ 85008  (City) (State) (Zip)					4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)									dividual or Joint/Group Filing (Check Applicable )  K Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tab	ole I - No	n-Deri	vativ	e Se	curit	ties Ac	quired,	Dis	sposed o	f, or Be	nefic	ially	Owned				
Da				Date	2. Transaction Date (Month/Day/Yea		Execution D		Code (	Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4		nd 5) Securition Benefici Owned I		es ally Following	Form (D) o	: Direct r Indirect   I str. 4)   (	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price	•	Reported Transact (Instr. 3	ion(s)			(instr. 4)
Common 02/01/20						007(1)					10,000	) A	\$1	1.5	29	29,435		D	
Common 02/01/20						2007 <sup>(1)</sup>					10,000	) D	\$9.0	0694	19,435			D	
		-	Table II -								osed of, converti				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	4. Transaction Code (Instr. 8)				6. Date E Expiratio (Month/D	n Dat	of Securities		ies g Securi	5	B. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amou or Numb of Share	er					
Stock Option (right to	\$1.5	02/01/2007 <sup>(1)</sup>			М			10,000	09/09/19	99	09/09/2009	Common	10,0	00	\$0	25,667	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 Founders Stock Option 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.

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** 

02/02/2007

\*\* 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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