FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours per response.	0.5								

5. Relationship of Reporting Person(s) to Issuer

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

2. Issuer Name and Ticker or Trading Symbol

Name and Address of Reporting Person* CAVE GEORGE H						2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ONNN]									ck all applic	cable) r	g Person(s) to Iss 10% O Other (ner
(Last) 5005 EA	`	irst) WELL ROAD	(Middle)					3. Date of Earliest Transaction (Month/Day/Year) 12/07/2006								Officer (give title Other below) below SVP, G Counsel CC&EO, S			
(Street) PHOENI			85008 (Zip)		4. 1	4. If Amendment, Date of Original Filed (Month								6. Individual or Joint/Group Filing (Check Applic Line) X Form filed by One Reporting Person Form filed by More than One Reportin Person					1
			ole I - Nor	n-Deriv	vativ	e Se	curit	ties Ac	auired	. Dis	sposed o	f. or B	enefic	ially	Owned				
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date,		3. 4. Transaction Di Code (Instr. 5)		4. Securi	4. Securities Acquired (A) Disposed Of (D) (Instr. 3,			5. Amou Securitie Beneficia Owned F	es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
										v	Amount	nt (A) or PI		ice	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
Common			12/07	7/2006(1)				М		22,00	22,000 A		1.25	40,935(2)			D		
Common			12/07	7/2006(1)				S		6,000) [\$6.9	34,935			D		
Common			12/07	7/2006 ⁽¹⁾				S		8,000) [\$7.5	26,	5,935		D		
Common 12/			12/07	7/2006 ⁽¹⁾				S		8,000	0 [) [\$7.3	3 18,935			D		
		-	Table II -								osed of, converti				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day)	Date,	4. Transaction Code (Instr. 8)				6. Date Exercisa Expiration Date (Month/Day/Year		:e	7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e (C s F illy C d	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or	mber ares					
Stock Option (right to	\$1.25	12/07/2006 ⁽¹⁾			M			22,000	02/05/2	004	02/05/2013	Commo	22,0	000	\$0	78,000)	D	

Explanation of Responses:

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-12/11/2006 **Fact**

** 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.

^{1.} 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.

^{2.} Includes 500 shares acquired by the Reporting Person under the Issuer's Employee Stock Purchase Plan from July 1, 2006 through September 30, 2006.

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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