FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL											
OMB Number:	3235-028										
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0.5

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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 <b>and</b> Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ ONNN ]								elationship deck all applic Directo	10% Ov			
(Last)	Last) (First) (Middle) ON SEMICONDUCTOR (M/D A700)				3. Date of Earliest Transaction (Month/Day/Year) 03/23/2006								below)	below)	·			
5005 E. MCDOWELL ROAD				_							$\perp$							
(Street) PHOENIX AZ 85008  (City) (State) (Zip)			_   4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								ndividual or Joint/Group Filing (Check Applicable e)  X Form filed by One Reporting Person  Form filed by More than One Reporting  Person						
		Tal	ole I - Non	ı-Deriv	vativ	e Se	curitie	s Ac	quired, D	Disp	osed o	f, or Ber	neficial	y Owned				
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)					ear)	2A. Deemed Execution Date, if any (Month/Day/Year		, Transaction Disposed Code (Instr. 5)		ties Acquired (A) o d Of (D) (Instr. 3, 4		5. Amour Securitie Beneficia Owned F Reported	s ally following	Form	: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
							Code	v	Amount	(A) or (D)	Price	Transact (Instr. 3 a	ion(s)			(Instr. 4)		
	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. Transaction Code (Instr. 8)		5. Number of 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 Am of Securities Underlying Derivative Sec (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	s S Ily	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				,	Code	v	(A)	(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares					
Stock Option (right to buy)	\$6.83	03/23/2006			A		60,000		03/23/2007 <sup>(1</sup>	1) (	03/23/2016	Common Stock	60,000	\$0	60,000	0	D	

## Explanation of Responses:

1. Granted effective March 23, 2006 under the Issuer's 2000 Stock Incentive Plan. Generally, the stock option will vest 25% on each of the first through fourth anniversaries of the grant date, subject to the terms and conditions of the plan and the related stock option agreement. The exercise price is 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

03/27/2006

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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, 2007, unless earlier revoked or terminated.

/s/ G. Sonny Cave G. Sonny Cave

Dated: March 15, 2006

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