FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPE	ROVAL
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)

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 ]										all applic	cable) or	g Pers	son(s) to Iss	/ner
(Last) 5005 EA	,	rst) WELL ROAD	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 03/03/2011  X Officer (give title below) SVP, Gen Cnsl, CCd										CC8	Other (specify below) &EO, & Sec				
(Street) PHOENI	X A	Z	85008		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Indivi ne) X	Form filed by More than One Reporting				
(City)	(St	ate)	(Zip)													Persor	า			
			le I - No			_			quired	, Dis	sposed o				_					
Da			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. ) 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				and Securiti		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D) Pr		Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
Common				03/03	/2011				М		5,000	(1)	A	\$5.	93	140	),705	D		
Common				03/03	/2011				F		2,770	(2)	D	\$11	08	137	137,935 D			
Common				03/03	3/2011				S		5,000	(1)	D	\$11	.2	132	132,935 D			
		Т									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, Trans			n of E		6. Date Exercisa Expiration Date (Month/Day/Yea		е	7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		j Security	Dei Sei (Ins	Price of rivative curity str. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	i C	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	,	Amount or Number of Shares						
Stock Option (right to	\$5.93	03/03/2011			М			5,000	03/03/20	09 (	03/03/2018	Com	nmon	5,000		<b>\$</b> 5.93	25,000		D	

## **Explanation of Responses:**

- 1. This transaction was 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).
- 2. This disposition transaction represents shares withheld by the Issuer pursuant to the Reporting Person's March 3, 2008 award of restricted stock units. On March 3, 2011, certain of these units vested. These shares were withheld to satisfy the Reporting Person's withholding obligations for various taxes and similar items. The Issuer will pay these taxes on behalf of the Reporting Person.

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an Exhibit. cave2011poa.txt

Judith A. Boyle, Attorney-in-03/07/2011 **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.

POWER OF ATTORNEY (George H. Cave)

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")), and any and all related documents and instruments. 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, any and all related documents and instruments, and to provide any necessary copies of such signed forms, documents and instruments 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

I hereby appoint Keith D. Jackson, Donald A. Colvin, and Judith A. Boyle, and

This power of attorney is effective from the date hereof until April 15, 2012, unless earlier revoked or terminated.

/s/ GEORGE H. CAVE George H. Cave

Dated: March 1, 2011