FORM 4

obligations may continue. See

Instruction 1(b)

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

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

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 app Direc	olicable) ctor	g Perso	Person(s) to Issuer 10% Owne Other (spec	
(Last) 5005 EA	(Fii	rst) (WELL ROAD	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 02/22/2012										belov	er (give title w) , Gen Cnsl,	, CC&	below)	
(Street) PHOENI (City)			35008 Zip)		4. If Amendment, Date of 0				of Original Filed (Month/Day/Year)						6. Indi Line) X	Forn Forn	dual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	e I - No	n-Deriv	ative	Se	curiti	es Ac	quired,	Dis	posed o	f, o	r Ben	efici	ially	Owne	ed			
D			2. Transa Date (Month/E	nsaction h/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)				4 and Secu Bene Owne		cially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount		(A) or (D)	Pric	e		action(s) 3 and 4)			(Instr. 4)
Common				02/22	/2012				A		31,518	(1)	A	\$9	0.04	10	63,473		D	
Common				02/22	/2012				A		23,333	(2)	A	\$9	0.04	18	36,806		D	
Common				02/22	/2012				F		7,362(3)	D	\$9	0.04	1'	79,444		D	
Common 02/2				02/22	2/2012				F		10,192 ⁽⁴⁾ D		\$9	0.04	169,252			D		
		Та									sed of, onvertib					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/D	n Date, ay/Year)	4. Transa Code (8)		of Deri Sec Acq (A) o Disp of (I	osed 0) tr. 3, 4	6. Date Expiration (Month/E	on Date		Am Sec Und Der	Amor or Nur of	ount nber	Deri Sec	rice of vative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ov Fo Dii or (I)	vnership irm: rect (D) Indirect (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

- 1. This transaction reports the acquisition, effective February 22, 2012, of 31,518 shares of common stock resulting from the attainment of a performance goal under an earlier Performance Based Restricted Stock Units Award ("PBRSU Award"), as described more below. The Compensation Committee of the Issuer originally awarded 378,223 PBRSUs to the Reporting Person with an effective grant date of March 2, 2009 subject to the Issuers 2000 Stock Incentive Plan and a related award agreement. The PBRSU Award will vest generally over a three-year (twelve quarter) period, but only upon the Issuer achieving certain adjusted non-GAAP earnings before interest, taxes, depreciation and amortization ("EBITDA") base and target performance measurements as set forth in the PBRSU Award agreement.
- 2. This transaction reports the acquisition, effective February 22, 2012, of 23,333 shares of common stock resulting from the attainment of performance goals under an earlier Performance Based Restricted Stock Units Award ("2010 PBRSU Award"), as described more below. The Compensation Committee of the Issuer originally awarded 70,000 PBRSUs to the Reporting Person with an effective grant date of February 16, 2010 subject to the Issuer's 2000 Stock Incentive Plan and a related award agreement. The 2010 PBRSU Award will vest generally over a three-year period, but only upon the Issuer achieving certain revenue and adjusted non-GAAP earnings before interest, taxes, depreciation and amortization ("EBITDA") minimum or maximum performance measurements as set forth in the 2010 PBRSU Award
- 3. This disposition transaction represents shares withheld by the Issuer pursuant to the Reporting Person's February 16, 2010 PBRSU awards and related award agreements. On February 22, 2012, 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.
- 4. This disposition transaction represents shares withheld by the Issuer pursuant to the Reporting Person's March 2, 2009 PBRSU award. On February 22, 2012, 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. cave2012poa.txt

<u>Judith A. Boyle, Attorney-in-</u> 02/24/2012 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)

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 ${\bf 16}$ 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 $\ensuremath{\mathsf{NASDAQ}}$

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, 2013, unless earlier revoked or terminated.

/s/ GEORGE H. CAVE George H. Cave

Dated: February 17, 2012