## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
obligations may continue. See	
Instruction 1(b).	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

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*  CAVE GEORGE H  (Last) (First) (Middle)  5005 EAST MCDOWELL ROAD				2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ ONNN ]									neck all ap Dire	plicable) ctor		Owner		
					3. Date of Earliest Transaction (Month/Day/Year) 06/02/2011								^ belo	,	belov , CC&EO, &	′		
(Street) PHOENI (City)			35008 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Lin	e) X Fori Fori	ial 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	Sec	curitie	s Ac	quired,	Dis	posed o	f, or	Bene	eficia	lly Own	ed		
Date				Exe Day/Year) if ar		2A. Deemed Execution Date, f any Month/Day/Year)		Transaction Disposed Code (Instr. 5)		ities Acquired (A) d Of (D) (Instr. 3, 4			Secu Bene	ficially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
									v	Amount	(A	) or )	Price	Trans	action(s) 3 and 4)		(Instr. 4)	
Common				06/02	/2011		F		1,662	1) D \$1		\$10.	39 1	14,898	D			
		Та									sed of, onvertib				Owned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	iversion Date Execution Date, if any (Month/Day/Year) (Month/Day/Year) (Month/Day/Year)		4. Transa Code ( 8)			rative rities iired r osed ) . 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amour or Numbe of Title Shares		ount	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

## **Explanation of Responses:**

1. This disposition transaction represents shares withheld by the Issuer pursuant to the Reporting Person's June 2, 2008 award of Restricted Stock Units ("RSUs"). On June 2, 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.

## Remarks:

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-06/06/2011 **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