FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Wa	ashington,	D.C.	20549

Check this box if no longer subject to	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
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

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

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

Mahoney Robert Charles (Last) (First) (Middle) 5005 EAST MCDOWELL ROAD					ON SEMICONDUCTOR CORP [ONNN] 3. Date of Earliest Transaction (Month/Day/Year) 03/03/2009									(Cr	Direk X Office belo	olicable) ctor er (give title w)		Owner r (specify w)
(Street) PHOENI (City)			35008 (Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)						Lin	e) X Forr Forr	l or Joint/Group Filing (Check Applicable orm filed by One Reporting Person orm filed by More than One Reporting orson				
		Tabl	le I - Noi	n-Deriv	ative	Se	curitie	s Acc	quired,	Dis	posed o	f, or l	3ene	ficial	ly Own	ed		
Date				2A. Deemed Execution Dat if any (Month/Day/Ye		n Date,	, Transaction Dispos Code (Instr. 5)		Disposed				Secur Benef Owne Repor	icially d Following ted	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A (D) or)	Price		action(s) 3 and 4)		
Common 03/0				03/03	/2009		F		4,987((1) D S		\$3.3	1 6	5,012	D			
		Та									sed of, onvertib				Owned			
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,	4. Transa Code (8)			ative rities ired osed . 3, 4	6. Date Expiration (Month/D	on Date	е	7. Title Amou Secur Under Deriva Secur and 4)	nt of ities lying itive ity (Ins	unt	3. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)

Explanation of Responses:

1. On March 3, 2009, the Reporting Person vested in 13,334 restricted stock units ("RSUs") and as a result acquired 13,334 shares of common stock of the Issuer pursuant to the Reporting Person's March 3, 2008 grant of RSUs. The RSUs acquisition was previously reported on an earlier Form 4 filed by the Reporting Person. This Form 4 reports the disposition of shares withheld by the Issuer pursuant to the RSUs' grant agreement in order to satisfy the Reporting Person's withholding obligations for various taxes due upon the vesting of the RSUs. The Issuer will pay the 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. mahoney2009poa.TXT

Judith A. Boyle, Attorney-in-

Fact

03/04/2009

** 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 (Robert Charles Mahoney)

I hereby appoint Keith D. Jackson, George H. Cave 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")), 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, 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 time.

This power of attorney is effective from the date hereof until April 15, 2010, unless earlier revoked or terminated.

/s/ ROBERT CHARLES MAHONEY Robert Charles Mahoney

Dated: March 2, 2009