FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	OVAL			
OMB Number:	3235-0287			
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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* Mahoney Robert Charles						2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ONNN]									Check all app Direct	olicable) ctor		Owner	
(Last) 5005 EAS	Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year) 05/23/2008									er (give title w) xec VP Sale	belo	Other (specify below) s & Marketing	
Street) PHOENIX AZ 85008 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I - Nor	n-Deriv	ative	Sec	curitie	s Acc	quired,	Dis	posed o	f, or l	Bene	eficia	ally Own	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execu Day/Year) if any		a. Deemed ecution Date, any onth/Day/Year)		Transaction Disposed Code (Instr. 5)		ities Acquired (A) d Of (D) (Instr. 3, 4			nd Secur Benef	rities ficially d Following	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	Transa	action(s) 3 and 4)		(111501.4)				
Common	3/2008	2008			S		12,614	4	D \$9.8		88 6	8 69,999							
		Та									sed of, onvertib				y Owned				
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)	Date,	4. Transaction Code (Instr. 8)		n of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			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)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amo or Num of Shar	nber					

Explanation of Responses:

Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an exhibit., mahoney2008poa.TXT

Judith A. Boyle, Attorney-in-05/27/2008 **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 (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 $144\ \mathrm{with}$

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 $\ensuremath{\mathsf{The}}$

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, 2009, unless earlier revoked or terminated.

revoked or cerminated

/s/ ROBERT MAHONEY
Robert Charles Mahoney

Dated: March 3, 2008

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