FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

OMB Number: 3235-0287					
Estimated average burden					
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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).	_	JT OF CHANGES IN BENEFICIAL OWNE 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 <u>ON SEMICONDUCTOR CORP</u> [ONNN]	(Check all applicat Director	10% Owner				
(Last) (First) 5005 EAST MCDOWELL ROAD	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 03/23/2008	below)	below) /P Sales & Marketing				
(Street) PHOENIX AZ	85008	4. If Amendment, Date of Original Filed (Month/Day/Year)	Line)	nt/Group Filing (Check Applicable				
(City) (State)	(Zip)			d by More than One Reporting				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.				5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common	03/23/2008		F		2,080 ⁽¹⁾	D	\$5.22	82,613	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 7. Title and 9. Number of 1. Title of 3. Transaction 3A. Deemed 5. Number 6. Date Exercisable and 8. Price of 10. 11. Nature Derivative Security (Instr. 3) Expiration Date (Month/Day/Year) Conversion Execution Date Transaction Amount of Derivative derivative Ownership of Indirect Date (Month/Day/Year) of Derivative Securities or Exercise if anv Code (Instr. Security Securities Form: Beneficial Beneficially Owned Price of Derivative (Month/Day/Year) 8) Securities Underlying (Instr. 5) Direct (D) Ownership (Instr. 4) or Indirect (I) (Instr. 4) Acquired Derivative (A) or Disposed Following Reported Security Security (Instr. 3 and 4) of (D) (Instr. 3, 4 and 5) Transaction(s) (Instr. 4) Amount 01 Number Date Expiration of Code ν (A) (D) Exercisable Date Title Shares

Explanation of Responses:

1. On March 23, 2008, the Reporting Person vested in 6,667 restricted stock units ("RSUs") and as a result acquired 6,667 shares of common stock of the Issuer pursuant to the Reporting Person's June 5, 2006 grant of RSUs. 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.

Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an exhibit., mahoney2007poa.TXT

Judith A. Boyle, Attorney-in-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.

03/26/2008

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, 2008, unless earlier revoked or terminated.

/s/ ROBERT MAHONEY
Robert Charles Mahoney

Dated: March 1, 2007

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