## SEC Form 4

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# FORM 4

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

OMB APPROVAL

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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).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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	OMB Number:	3235-0287								
	Estimated average burden									
	hours per response:	0.5								

1. Name and Addres Mahoney Rot	s of Reporting Person pert Charles	*	2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>ON SEMICONDUCTOR CORP</u> [ ONNN ]	(Check	tionship of Reporting Perso all applicable) Director	10% Owner
(Last) (First) (Middle) 5005 EAST MCDOWELL ROAD			3. Date of Earliest Transaction (Month/Day/Year) 03/03/2010	X	Officer (give title below) Exec VP Sales & M	Other (specify below) Iarketing
(Street) PHOENIX (City)	AZ (State)	85008 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Filing ( Form filed by One Repor Form filed by More than ( Person	ting Person

#### 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)			4. Securities A Disposed Of (			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
Common	03/03/2010		F		4,204 <sup>(1)</sup>	D	\$8.2	73,738	D	
Common	03/04/2010		М		22,500	A	<b>\$5.93</b>	96,238	D	
Common	03/04/2010		S		22,500 <sup>(2)</sup>	D	\$8.0835	73,738	D	
Common	03/04/2010		S		25,000 <sup>(2)</sup>	D	\$8.0835	48,738	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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)	4. Transa Code ( 8)		of Deri Seci Acq (A) ( Disp of (E	umber vative urities uired or oosed D) (Instr. and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		te of Securities		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (right to buy)	\$5.93	03/04/2010		М			22,500	03/03/2009	03/03/2018	Common	22,500	\$0	67,500	D	

Explanation of Responses:

1. This disposition transaction represents shares withheld by the Issuer pursuant to the Reporting Person's March 3, 2008 award of restricted stock units. On March 3, 2010, 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.

2. This disposition transaction was executed in multiple trades at prices ranging from \$8.08 to \$8.0926. The price reported above reflects the weighted average sale price. The Reporting Person hereby undertakes to provide, upon request, to the SEC staff, the Issuer, or a security holder of the Issuer, full information regarding the number of shares and prices at which the transaction was effected.

### Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an Exhibit. mahoney2010poa.TXT

Judith A. Boyle, Attorney-in-	03/05/2010
<u>Fact</u>	00/00/2010
** 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.

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, 2011, unless earlier

/s/ ROBERT CHARLES MAHONEY

revoked or terminated.

Robert Charles Mahoney

Dated: March 1, 2010