FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

OMB APPROVAL										
OMB Number:	3235-028									
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB Number:

Stimated average burden hours per response:

	Check this box if no longer subject to							
	Section 16. Form 4 or Form 5							
	obligations may continue. See							
	Instruction 1(b).							

					01 5	section s	30(11) 01 1116	invesui	ieni C	ompany Act	01 1940						
1. Name and Address of Reporting Person* <u>Mahoney Robert Charles</u>					2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ONNN]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) 5005 EA	(Fi	rst) (Middle)			3. Date of Earliest Transaction (Month/Day/Year) 05/09/2011							^ belo	,		Other (specify below) & Marketing	
(Street) PHOENI (City)			35008 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I - N	on-Deriv	ative	Secu	rities A	cquire	d, Di	sposed o	f, or B	enefici	ally Own	ed			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/			Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4 in the control of th				5) Secu Bene	ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership					
							Code	v	Amount	(A) or (D)	Price	Trans	saction(s) . 3 and 4)		(Instr. 4)		
Common 05/09/20				011		S		30,718	D	\$11.40	61 ⁽¹⁾ 1	121,086					
		Та	ıble II							osed of, convertib				I			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Exercise (Month/Day/Year) if any (Month/Day/Year) erivative			ransaction of ode (Instr. Derivative		Expira	e Exerc ation D h/Day/`		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(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
	I	1	I		- 1	- 1	1	1		1			1	1	1	I	

Explanation of Responses:

1. This disposition transaction was executed in multiple trades at prices ranging from \$11.46 to \$11.47. 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.

(D)

Date

Exercisable

Expiration

Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an Exhibit. mahoney2011poa.txt

Code

Judith A. Boyle, Attorney-in-Fact 05/10/2011

Number

of Shares

Title

** 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, 2012, unless earlier revoked or terminated.

/s/ ROBERT CHARLES MAHONEY Robert Charles Mahoney

Dated: March 1, 2011