FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL				
l	OMB Number:	3235-0287				
l	Estimated average burde	en				
l	hours per response:	0.5				

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

	d Address of ey Robert		2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ ONNN ]									5. Relationship of Reporting Person(s) to Issu (Check all applicable)  Director 10% Own				Owner					
(Last) (First) (Middle) 5005 EAST MCDOWELL ROAD							3. Date of Earliest Transaction (Month/Day/Year) 05/03/2012									belov	,	Other (specify below)  5 & Marketing			
(Street) PHOENI (City)			85008 (Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									5. Indiv ine) X	-,					
		Tabl	le I - No	on-Deriv	ative	Sec	uritie	s Acc	quired	l, Dis	sposed o	f, o	or Ber	nefici	ally (	Owne	ed				
Date					Execut  Day/Year)   if any		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4				and 5) Se Be Ov		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	Ownership		
										v	Amount		(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common		2012	012			A		58,478 <sup>(1</sup>	1)	A	\$8.39		252,493		D						
Common		2012	012			F		18,768(2)		D	\$8.39		233,725		D						
Common	2012	2012			S		60,000		D	\$8.4027		173,725		D							
		Та	able II -								osed of, convertib					vned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Dee Execution if any (Month/I		4. Transa Code ( 8)		5. Nu of Deriv Secu Acqu (A) of Dispo of (D) (Instrand 5	rities ired r osed )	6. Date Expirati (Month/	ion Da	te Ai Scinic Ai		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amoun or Number of Title Shares				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:**

## Remarks:

<u>Judith A. Boyle, Attorney-in-</u> <u>Fact</u> <u>05/07/2012</u>

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.

<sup>1.</sup> This transaction reports the acquisition, effective May 3, 2012, of 58,478 shares of common stock resulting from the attainment of a performance goal under an earlier Performance Based Restricted Stock Units Award ("PBRSU Award"), as described more below. The Compensation Committee of the Issuer originally awarded 701,740 PBRSUs to the Reporting Person with an effective grant date of March 2, 2009, subject to the Issuers 2000 Stock Incentive Plan and a related award agreement. The PBRSU Award, which vested generally over a three-year (twelve quarter) period upon the Issuer achieving certain adjusted non-GAAP earnings before interest, taxes, depreciation and amortization ("EBITDA") base and target performance measurements as set forth in the PBRSU Award agreement, is now fully vested.

<sup>2.</sup> This disposition transaction represents shares withheld by the Issuer pursuant to the Reporting Person's March 2, 2009 PBRSU award. On May 3, 2012, 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.

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, 2013, unless earlier revoked or terminated.

/s/ ROBERT CHARLES MAHONEY Robert Charles Mahoney

Dated: February 17, 2012