FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	ONB APPROVAL									
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

	nd Address of ey Rober		2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ONNN]									all applic Directo	cable) or	g Pers	son(s) to Iss	vner						
(Last) 5005 EA	ast) (First) (Middle) 005 EAST MCDOWELL ROAD						3. Date of Earliest Transaction (Month/Day/Year) 11/03/2011									(give title	Other (spe below) s & Marketing		. ,			
(Street)	reet) HOENIX AZ 85008					4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicab Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City) (State) (Zip)																						
1 Tido of	Caarreiter (Ima		ole I - N			_			·	d, Di	sposed o	-		lly C			l c o		7. Nature			
Date					. Transaction Date Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 ar			nd 5) Securities Beneficially Owned Following Reported		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		of Indirect Beneficial Ownership			
											Amount	(A) or (D) Price						(Instr. 4)				
Common	2011)11			A		58,478(1)	A	\$7.7	57.79 1		3,744		D								
Common	2011	011			F		24,298(2)	D	\$7.7	9	149	9,446		D								
Common 11/04/20)11				12,500	A	\$5.9	3 161		1,946		D				
Common 11/04/20)11				12,500	D	\$8.046	0469 ⁽³⁾ 1		9,446		D				
Common 11/04/20)11		S		25,000	D	\$8.0417(4)		124,446			D				
		-	Table II								posed of, convertil			y Ov	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	med	4. Transa Code (8)	ection	5. Number on of		6. Date Exerc Expiration D (Month/Day/		cisable and	7. Title and Ame of Securities Underlying Derivative Secu (Instr. 3 and 4)		De Se	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Owner Form: Direct or Indi (I) (Ins	Ownership	Beneficial Ownership (Instr. 4)			
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amoun or Number of Shares	ber								
Stock Option (right to buy)	\$5.93	11/04/2011			M			12,500	03/03/	2009	03/03/2018	Common	12,500) :	\$5.93	22,500)	D				

Explanation of Responses:

- 1. This transaction reports the acquisition, effective November 3, 2011, of 58,478 shares of common stock resulting from the attainment of a performance goal under an earlier Performance Based Restricted Stock Units Award ("BBRSU 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 will vest, generally, over a three-year (twelve quarter) period but only 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.
- 2. This disposition transaction represents shares withheld by the Issuer pursuant to the Reporting Person's March 2, 2009 PBRSU award. On November 3, 2011, 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.
- 3. This disposition transaction was executed in multiple trades at prices ranging from \$8.04 to \$8.05. 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.
- 4. This disposition transaction was executed in multiple trades at prices ranging from \$8.03 to \$8.05. 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. mahoney2011poa.txt

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

** Signature of Reporting Person

11/07/2011

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