FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPROVAL								
	OMB Number:	3235-0287							
l	Estimated average burd	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

1. Name ar		2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ONNN]									applic Directo	able) r) Pers	on(s) to Issu 10% Ow	ner					
(Last) (First) (Middle) 5005 E. MCDOWELL ROAD						3. Date of Earliest Transaction (Month/Day/Year) 02/10/2011								X Officer (give title Other (specify below) SVP & GM, Dig & MxdSig Prd Grp						
(Street) PHOENIX AZ 85008					_ 4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(Si		(Zip)	on-Deri	vativ	- Sac	vurit	ies Ac	auire	d Di	enosed o	f or Re	neficia	lly Ov	med					
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/					ction	2A. Exe) if ar	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 and			5. Amou nd 5) Securiti Benefici Owned		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Tr	eported ansact istr. 3 a	ion(s)			Instr. 4)	
Common 02/10/20)11		M		18,332	A	\$3.45	5 71		,972		D		
Common 02/10/20)11			S		943	D	\$11.2	\$11.2		,029		D		
Common 02/10/20)11			S		18,332	D	\$11.20	11.204 ⁽¹⁾ 5		52,697		D		
		7	Table II								posed of, convertil			/ Own	ed					
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)				6. Date Exerci Expiration Dat (Month/Day/Yo		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares							
Stock Option (right to buy)	\$3.45	02/10/2011			M			18,332	03/17/2	2008	07/31/2013	Common	18,332	\$3.	45	0.0000		D		

Explanation of Responses:

1. This disposition transaction was executed in multiple trades at prices ranging from \$11.20 to \$11.2054. 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. klosterboer2010poa.txt

Judith A. Boyle, Attorney-in-

02/14/2011

<u>Fact</u>

** Signature of Reporting Person

Date

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

- * 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 A. Klosterboer)

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, and 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 revoked or terminated.

/s/ ROBERT A. KLOSTERBOER Robert A. Klosterboer

Dated: March 1, 2010