FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPRO	OVAL
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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).

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 and Address of Reporting Person* KLOSTERBOER ROBERT A.						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 Officer (give title Other (specify)				
(Last) (First) (Middle) 5005 E. MCDOWELL ROAD					3. Date of Earliest Transaction (Month/Day/Year) 12/01/2010										X Officer (give title Other (specify below) SVP & GM, Dig & MxdSig Prd Grp					
(Street) PHOENI (City)			85008 (Zip)		4. 1	If Ame	endme	nt, Date (of Origi	nal Fil	led	(Month/Da	ay/Yea	ar)	Line	X Form fi	led by One	Repo	(Check Ap orting Person	n
		Tab	le I - Noi	1-Deriv	vativ	e Se	curit	ies Ac	quire	d, D	isp	osed o	f, o	r Ber	neficial	y Owned				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				Exection Exection				Transaction Disp Code (Instr. 5)		Disposed	Securities Acquired (A) or sposed Of (D) (Instr. 3, 4			5. Amou Securitie Beneficia	es	6. Ownership Form: Direct (D) or Indirect	n: Direct r Indirect	7. Nature of Indirect Beneficial Ownership		
						(Month/Day/Year)			Code V		Amount		(A) or (D)	Price	Reported Transact (Instr. 3 a	l ion(s)	(I) (Instr. 4)	(Instr. 4)		
Common			12/0	1/201	/2010				[15,000	0	Α	\$0.68	3 72	670		D		
Common			12/0	1/201	1/2010						12,982	2	A	\$0.68	85,	652		D		
Common 1			12/0	1/201	/2010		S			12,982		D	\$8.69	72,670			D			
Common 12/0			1/201	0	s 15,000 D \$		\$8.47	57,670			D									
		-	Гable II -									sed of, onvertil				Owned				
1. Title of Derivative Security (Instr. 3)	Title of 2. 3. Transaction A. Deemed Execution Date Curity or Exercise (Month/Day/Year) if any Co		Transa Code (5. Number of Bode (Instr. Derivative (Expira	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amour of Securities Underlying Derivative Security (Instr. 3 and 4)		es J Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((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 Exerc	sable		expiration vate	Title	.	Amount or Number of Shares					
Stock Option (right to buy)	\$0.68	12/01/2010			М			12,982	03/17	/2008	0	1/31/2011	Con	nmon	12,982	\$8.69	15,000)	D	
Stock Option (right to buy)	\$0.68	12/01/2010			М			15,000	03/17	2008	0	1/31/2011	Con	nmon	15,000	\$8.47	0.0000)	D	

Explanation of Responses:

1. This disposition transaction was executed in multiple trades at prices ranging from \$8.47 to \$8.47004. 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-

** Signature of Reporting Person

Fact

12/03/2010

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 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