FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-0287									
Estimated average burden										

0.5

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).

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*					2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ ONNN ]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>COLVIN DONALD A</u>						LIVIICOTE	COIC	<del>)   (</del>	<u> </u>			ector	10% C				
					3 Date	Date of Earliest Transaction (Month/Day/Year)							cer (give title ow)	Other below	(specify		
(Last) (First) (Middle)					03/03/2010							Exec VP & CFO					
5005 EAST MCDOWELL ROAD																	
(Street)						4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)				
PHOENIX AZ 85008										X For	m filed by One	ne Reporting Person					
											Form filed by More than One Reporting Person						
(City)	(Sta	ate) (	Zip)									FCI	3011				
		Tabl	e I - Nor	-Deriva	ative S	ecurities Acc	quired,	Disp	osed of,	or Ber	eficia	ally Own	ed				
Date			2. Transa Date (Month/D		2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)					nd Secu Bene Owne	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
							Code	v	Amount	(A) or (D)	Price		rted saction(s) . 3 and 4)		(Instr. 4)		
Common				03/03/	/2010		S		5,000(1)	D	\$8.	29 4	81,145	D			
Common 03/03/2					/2010		F		5,255(2)	D	\$8	.2 4	75,890	D			
Common 03/05/					/2010		S		5,000(1)	D	\$8.	15 4	70,890	D			
		Та				urities Acqui s, warrants,						y Owned	i				
Derivative Conversion Date Execution Date, T		4. Transactio Code (Inst	saction of Expirat		on Date		7. Title and Amount of Securities		8. Price of Derivative Security	9. Number o derivative Securities	f 10. Ownership Form:	11. Nature of Indirect Beneficial					

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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v			Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

## **Explanation of Responses:**

- 1. These transactions were made pursuant to the Reporting Person's existing Rule 10b5-1 plan (i.e. a stock trading plan designed to comply with Rule 10b5-1 of the Securities Exchange Act of 1934, as amended).
- 2. This disposition transaction represents shares withheld by the Issuer pursuant to the Reporting Person's March 3, 2008 award of restricted stock units. On March 3, 2010, 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.

## Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an Exhibit. colvin2010poa.TXT

Judith A. Boyle, Attorney-in-Fact 03/05/2010

\*\* 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 (Donald A. Colvin)

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

This power of attorney is effective from the date hereof until April 15, 2011, unless earlier revoked or terminated.

/s/ DONALD A.. COLVIN Donald A. Colvin

Dated: March 1, 2010