FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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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*  COLVIN DONALD A  (Last) (First) (Middle)  5005 EAST MCDOWELL ROAD						2. Issuer Name and Ticker or Trading Symbol     ON SEMICONDUCTOR CORP [ ONNN ]      3. Date of Earliest Transaction (Month/Day/Year)     10/01/2010      4. If Amendment, Date of Original Filed (Month/Day/Year)								(Ch	Relationship of Reportin heck all applicable) Director X Officer (give title below) Exec V		10% Othe belo P & CFO	Owner er (specify w)
(Street) PHOENI	ENIX AZ 85008												Line	Forn	Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(St		Zip)	on-Deriv	zative	Sec	uritie	s Ac	auirea	l Di	sposed o	of or F		ficial	v Own	-d		
1. Title of Security (Instr. 3)  2. Transactic Date (Month/Day/					tion	2A. Deemed Execution Date,		3. Transa	4. Securitie Disposed C Code (Instr.		s Acquired (A) or of (D) (Instr. 3, 4 ar		or 1 and 5)	5. Amount of		6. Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common 10/01/20					2010	10		S		5,000(1)	<u> </u>	\$	7.275	<u> </u>	25,798	D		
Common 10/01/20				2010	10		F		20,775 <sup>(3)</sup> I			\$7.23		05,023	D			
		Та	ıble II -								osed of, convertib				Owned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	emed ion Date, //Day/Year)  4. Transi Code 8)			of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amoun or Numbe of Title Shares		tr. 3	Price of erivative ecurity nstr. 5)	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:**

- 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 was executed in multiple trades at prices ranging from \$7.27 to \$7.29. 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.
- 3. This disposition transaction represents shares withheld by the Issuer pursuant to the Reporting Person's October 1, 2007 award of restricted stock units ("RSUs"). On October 1, 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 10/05/2010

\*\* 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