SEC Form 4	
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## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See
Instruction 1(b).

# STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

#### OMB APPROVAL OMB Number: 3235-0287 Estimated average burden 0.5

1 0	Person*	2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>ON SEMICONDUCTOR CORP</u> [ ONNN ]	(Check	all applicable)	erson(s) to Issuer 10% Owner Other (specify
ast) (First) (Middle) 005 EAST MCDOWELL ROAD		3. Date of Earliest Transaction (Month/Day/Year) 06/02/2009		below) SVP, Gen Cnsl, CC	below)
		4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Group Fili	ng (Check Applicable
AZ	85008		X	Form filed by One Re	
(State)	(Zip)			Person	an One Reporting
	(First) CDOWELL R(	(First) (Middle) CDOWELL ROAD AZ 85008	Image: Additional stress of Reporting Fersion       ON SEMICONDUCTOR CORP [ ONNN ]         ON SEMICONDUCTOR CORP [ ONNN ]       3. Date of Earliest Transaction (Month/Day/Year)         OB/CDOWELL ROAD       4. If Amendment, Date of Original Filed (Month/Day/Year)         AZ       85008	Image: Construction of the point of the	Image: Construction of the point of the

### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)		2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)		4. Securities / Disposed Of ( 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(11311.4)
Common	06/02/2009		F		1,240 <sup>(1)</sup>	D	<b>\$6.7</b>	50,176	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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)		of Exp		6. Date Exerc Expiration Da (Month/Day/Y	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)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

#### Explanation of Responses:

1. On June 2, 2009, the Reporting Person vested in 4,000 restricted stock units ("RSUs") and as a result acquired 4,000 shares of common stock of the Issuer pursuant to the Reporting Person's June 2, 2008 grant of RSUs. The RSUs acquisition was previously reported on an earlier Form 4 filed by the Reporting Person. This Form 4 reports the disposition of shares withheld by the Issuer pursuant to the RSUs' grant agreement in order to satisfy the Reporting Person's withholding obligations for various taxes due upon the vesting of the RSUs. The Issuer will pay the 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. cave2009poa.TXT

## Judith A. Boyle, Attorney-in-Fact

\*\* Signature of Reporting Person Date

06/04/2009

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.

hours per response:

POWER OF ATTORNEY (George H. Cave)

I hereby appoint Keith D. Jackson, Donald A. Colvin, 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, 2010, unless earlier revoked or terminated.

/s/ GEORGE H. CAVE George H. Cave

Dated: March 2, 2009