FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APP	ROVAL
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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 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) 2. Issuer Name and Ticker or Trading Symbol 1. Name and Address of Reporting Person* ON SEMICONDUCTOR CORP [ONNN] **CAVE GEORGE H** Director 10% Owner Officer (give title Other (specify 3. Date of Earliest Transaction (Month/Day/Year) below) below) (Last) (First) (Middle) 02/15/2011 SVP, Gen Cnsl, CC&EO, & Sec 5005 EAST MCDOWELL ROAD 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable (Street) Line) 85008 **PHOENIX** AZForm filed by One Reporting Person Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 1. Title of Security (Instr. 3) 2. Transaction 2A. Deemed 5. Amount of 6. Ownership 7. Nature Transaction Execution Date. Securities Form: Direct of Indirect (Month/Day/Year) Code (Instr. 8) Beneficially (D) or Indirect (I) (Instr. 4) 5) Beneficial (Month/Day/Year) Owned Following Ownership Reported (Instr. 4) (A) or (D) Transaction(s) Code Amount Price (Instr. 3 and 4) 02/15/2011 Common 5,000 D \$11.65 98,159 D Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 9. Number of 1. Title of 3. Transaction 3A. Deemed 5. Number 6. Date Exercisable and 7. Title and 8. Price of 10. 11. Nature Expiration Date (Month/Day/Year) Derivative Security Conversion Execution Date Transaction Amount of derivative Ownership Date (Month/Day/Year) Derivative or Exercise if any Code (Instr. Securities Security Securities Form: Beneficial (Instr. 3) Price of (Month/Day/Year) Securities Underlying (Instr. 5) Beneficially Direct (D) Ownership (Instr. 4) Derivative Acquired Derivative Owned or Indirect (A) or Disposed (I) (Instr. 4) Security Security (Instr. 3 Following and 4) Reported of (D) (Instr. 3, 4 and 5) Transaction(s) (Instr. 4)

Date

Exercisable

Expiration

Title

Explanation of Responses:

Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an Exhibit. cave2010poa.txt

Code

<u>Judith A. Boyle, Attorney-in-</u> Fact <u>02/17/2011</u>

** Signature of Reporting Person Date

Amount or Number

Shares

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.

(A) (D)

POWER OF ATTORNEY (George H. Cave)

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

I hereby appoint Keith D. Jackson, Donald A. Colvin, and Judith A. Boyle, and

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

/s/ GEORGE H. CAVE George H. Cave

Dated: March 1, 2010