

# SECURITIES AND EXCHANGE COMMISSION

## FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2006-05-08** | Period of Report: **2006-05-05**  
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### ISSUER

#### ON SEMICONDUCTOR CORP

CIK: **1097864** | IRS No.: **363840979** | State of Incorporation: **DE** | Fiscal Year End: **1231**  
SIC: **3674** Semiconductors & related devices

#### Mailing Address

5005 EAST MCDOWELL ROAD  
PHOENIX AZ 85008

#### Business Address

5005 EAST MCDOWELL ROAD  
PHOENIX AZ 85008  
6022446600

### REPORTING OWNER

#### CAVE GEORGE H

CIK: **1184583**  
Type: **4** | Act: **34** | File No.: **000-30419** | Film No.: **06818162**

#### Business Address

C/O ASSISTANT GENERAL  
COUNSEL  
5005 E. MCDOWELL RD.  
PHOENIX AZ 85202

# FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

### OMB APPROVAL

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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).

### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person <b>CAVE GEORGE H</b>			2. Issuer Name and Ticker or Trading Symbol <b>ON SEMICONDUCTOR CORP [ONNN]</b>			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) <b>Sr. VP, G Counsel, CC&amp;EO, Sec.</b>		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) <b>05/05/2006</b>					
<b>ON SEMICONDUCTOR (M/D A700), 5005 E. MCDOWELL ROAD</b>			4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person		
(Street) <b>PHOENIX, AZ 85008</b>								
(City)	(State)	(Zip)						

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock	05/05/2006		S		10,890	D	\$7.18	5,935 <sup>(1)</sup>	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. 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 of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		(A)	(D)					

**Explanation of Responses:**

1. Includes 500 shares acquired by the Reporting Person under the Issuer's Employee Stock Purchase Plan from January 1, 2006 through March 31, 2006.

**Remarks:**

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

## Signatures

George H. Cave by Judith A. Boyle as Attorney-in-Fact

05/08/2006

\*\* 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

(G. Sonny 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")). 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, and to provide any necessary copies of such signed forms 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, 2007, unless earlier revoked or terminated.

/s/ G. Sonny Cave  
G. Sonny Cave

Dated: March 15, 2006

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