SEC Form 3

FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## **INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

OMB APPROVAL

3235-0104 OMB Number: Estimated average burden hours per response: 0.5

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* <u>SMITH ROBERT HENRY</u>			2. Date of Event Requiring Statement (Month/Day/Year) 08/18/2005 3. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ ONNN ]								
(Last) (First) (Middle) 5005 EAST MCDOWELL ROAD (M/D A700)		· ,				tionship of Reporting Perso all applicable) Director	10% Owne	er (Me	<ul> <li>5. If Amendment, Date of Original Filed (Month/Day/Year)</li> <li>6. Individual or Joint/Group Filing (Check</li> </ul>		
(M/D A700) (Street) PHOENIX (City)	AZ (State)	85008 (Zip)				Officer (give title below)	Other (spe below)	Ap	olicable Line) X Form filed b	y One Reporting Person y More than One	
Table I - Non-Derivative Securities Beneficially Owned											
1. Title of Security (Instr. 4)						Amount of Securities neficially Owned (Instr. 4) Gr Indirect (I) (Instr. 5)		ct (D)   (Insi	4. Nature of Indirect Beneficial Ownership (Instr. 5)		
Common Stock						90,000	D				
Table II - Derivative Securities Beneficially Owned           (e.g., puts, calls, warrants, options, convertible securities)											
Expiration			2. Date Exerc Expiration Da (Month/Day/)			3. Title and Amount of Securit Underlying Derivative Security		4. Conversior or Exercise	se Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
Explanation of R			Date Exercisable	Expiratior Date	n Title		Amount or Number of Shares	Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)		

**Remarks:** 

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

Robert H. Smith by Judith A. Boyle as Attorney-in-Fact

08/19/2005

Date

\*\* Signature of Reporting Person

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 5 (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 (Robert H. Smith)

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")). Among other things, each attorneyin-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, 2006, unless earlier revoked or terminated.

/s/ Robert H. Smith Robert H. Smith

Dated: August 18, 2005

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