SEC	Form 4
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# FORM 4

Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Check this box if no longer subject to

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden 0.5 hours per response:

			of Section So(n) of the investment Company Act of 1940	
1. Name and Address of Reporting Person* SIMS LARRY W (Last) (First) (Middle) ON SEMICONDUCTOR CORPORATION			2. Issuer Name and Ticker or Trading Symbol     ON SEMICONDUCTOR CORP [ ONNN ]     3. Date of Earliest Transaction (Month/Day/Year)     04/19/2004	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) below) VP & GM Analog Products Div.
5005 EAST M	ICDOWELL RO	DAD		
(Street) PHOENIX	AZ	85008	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person
(City)	(State)	(Zip)		
		Table I - Non-D	Derivative Securities Acquired, Disposed of, or Benef	ficially Owned

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date, if any	3. Transa Code ( 8)	ction	Disposed Of (D) (Instr. 3, 4 and 5)			Beneficially Owned Following	(D) or Indirect	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(instr. 4)

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

(c.g., puts, cans, warrants, oprioris, 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)		5. Number Derivativ Securitie Acquired or Dispos of (D) (Ins 3, 4 and 5	re s I (A) sed str.	e Expiration Date (Month/Day/Year) (A) eed str.		of Securities		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)		
Stock Options (right to buy)	\$6.49	04/19/2004		A		250,000		04/19/2005 <sup>(1)</sup>	04/19/2014	Common Stock	250,000	\$0 <sup>(1)</sup>	250,000	D	

### Explanation of Responses:

1. Granted effective 4-19-04 under the Issuer's 2000 Stock Incentive Plan for services as an employee. The stock option will vest 25% on each of the first (1st) through fourth (4th) anniversaries of the Grant Date, subject to continued employment with the Issuer, and other terms and conditions of the plan and the related stock option agreement. The exercise price is the closing price on the date of the grant.

#### **Remarks:**

(2) Judith A. Boyle is signing on behalf of Mr. Sims pursuant to a Power of Attorney dated April 19, 2004, attached herein as an exhibit.

Larry W. Sims by Judith A.
Boyle as Attorney-in-Fact (2)

04/21/2004

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 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 (Larry W. Sims)

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 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, 2005, unless earlier revoked or terminated.

/s/ Larry W. Sims Larry W. Sims

Dated: April 19, 2004

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