FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL 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>Mahoney Robert Charles</u>						2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ONNN]									k all applic Directo	tor		10% Ov	/ner
(Last) 5005 EA	`	(First) (Middle) MCDOWELL ROAD					3. Date of Earliest Transaction (Month/Day/Year) 03/05/2007									r (give title) ec VP Sales &		Other (s below) Marketing	респу
(Street) PHOENIX AZ 85008 (City) (State) (Zip)					4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)									ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tab	le I - Nor	n-Deriv	vativ	e Se	curities	s Acc	uired, I	Disp	osed o	of, or Be	enefic	ially	Owned				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					saction	n ear)	2A. Deemed Execution Date, f any (Month/Day/Year)		3. 4. S Transaction Dis Code (Instr. 5)		4. Securi Disposed	curities Acquired (A) sed Of (D) (Instr. 3, 4			5. Amour Securitie Beneficia	nt of s ally ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) (D)	Or Pri	rice Reporte Transac (Instr. 3		tion(s)			(Instr. 4)
Common 03/05/						2007		A		35,00	0 A		(1)	55,000			D		
		-	Table II -						ired, Di option						Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	Date,	4. Transa Code (8)		of		6. Date Exercisal Expiration Date (Month/Day/Year			e and 7. Title and of Securiti Underlying Derivative (Instr. 3 an		1	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership tt (Instr. 4)
					Code	v	(A)		Date Exercisabl		xpiration ate	Title	Amo or Num of Shar	ber					
Stock Option (right to buy)	\$9.208	03/05/2007 ⁽²⁾			A		90,000		03/05/2008	3 0	3/05/2017	Common	90,0	000	\$0	90,00	0	D	

Explanation of Responses:

1. On February 22, 2007, the Board of Directors of the Issuer awarded these restricted stock units to the Reporting Person under the Issuer's 2000 Stock Incentive Plan, with an effective grant date of March 5, 2007 and with equal pro rata vesting over a 3-year period beginning on the first anniversary of the grant date, subject to the terms and conditions of the Issuer's 2000 Stock Incentive Plan and the relevant award agreement. This award may only be settled in shares of the Issuer's common stock upon vesting. The award was for no consideration other than service as an executive officer of the Issuer.

2. On February 22, 2007, the Board of Directors granted this stock option to the Reporting Person under the Issuer?s 2000 Stock Incentive Plan, with an effective grant date of March 5, 2007. Generally, the stock option will vest 25% on each of the first through fourth anniversaries of the grant date, subject to the terms and conditions of the plan and the related stock option agreement. The exercise price is the closing price on the grant date. The grant was for no consideration other than service as an executive officer of the Issuer

Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an exhibit., mahoney2006poa.TXT

Judith A. Boyle, Attorney-in-

03/07/2007

Fact

** 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 (Robert Charles Mahoney)

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?)), 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, 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, 2007, unless earlier revoked or terminated.

/s/ Robert Charles Mahoney Robert Charles Mahoney

Dated: June 29, 2006

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