FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-028								

37 Estimated average burden hours per response: 0.5

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 or Section 30(h) of the Investment Company Act of 1940

					\neg																
1. Name and Address of Reporting Person* Mahoney Robert Charles						2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP ONNN										5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
<u>Manoney Robert Charles</u>															1						
,			-											C Officer below)	(give title		Other (s	specify			
(Last)	(Fi	irst)	(Middle)			3. Date of Earliest Transaction (Month/Day/Year)										,			, ,		
5005 EAST MCDOWELL ROAD							02/05/2007										c VP Sale	s &	Marketing		
DOUD LIT	or mode	WEEE ROLL																			
4. If Amendment, Date of Original Filed (Month/Day/Year)															6. Individual or Joint/Group Filing (Check Applicable						
(Street)													Line)								
PHOEN	X A	Z	85008			X For											filed by One Reporting Person				
					-											Form f	iled by Mor	e thai	n One Repo	rting	
(O:t-)	(0)		(7:-)													Persor	ı ´		·	, I	
(City)	(5)	tate)	(Zip)																		
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transaction 2A. Deem										3. 4. Securities				red (A	A) or	5. Amou	nt of 6. O		vnership	7. Nature	
Date							Execution Date,			Transac			Disposed Of (D) (Instr. 3, 4			Securitie				of Indirect Beneficial	
				(Month/	раугте		if any (Month	/Day/Yea		Code (In 8)	istr.	5)				Benefici Owned F				Ownership	
							(,		`` -	'			(4)			Reported	Reported			(Instr. 4)	
								Code	V	Amount	(A) ((D))r F	Price	Transaci (Instr. 3							
Common 02/05/2							007(1)			М		4,375	75 A \$		\$1.25	5 24,375			D		
02/05/2										S		4 27			\$9.56	20,000(2)					
Common 02/05/2						007(1)				5		4,375 D		Φ9.50	20,000 ⁽²⁾			D			
		Т	able II -	Deriva	tive S	Sec	uritie	s Aco	ıuir	ed. Di	spo	sed of	or Ber	efic	cially	Owned					
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																					
1. Title of	2.	3. Transaction	3A. Deem	nd	4.		E N	umber	6 5	Date Exe	rcica	ble and	7. Title a	nd .		8. Price of	9. Number	of	10.	11. Nature	
Derivative	Conversion	Date	Execution		Transa	action				Expiration Date		DIE AIIU	Amount	of		Derivative	derivative		Ownership	of Indirect	
Security	or Exercise	(Month/Day/Year)	if any	, . l	Code ((Instr.				onth/Day	/Year				Security	Securities		Form:	Beneficial Ownership		
(Instr. 3) Price of Derivative Security (Month/Day/Year) 8)							Securities Acquired (A) or			Underlying Derivative Secu (Instr. 3 and 4)					urity	(Instr. 5)	Beneficially Owned Following		Direct (D) or Indirect	(Instr. 4)	
																			(I) (Instr. 4)	(
							Disposed										Reported Transaction(s)			1	
							of (D) (Instr. 3, 4									(Instr. 4)					
						and	and 5)														
				Γ										Am	nount					1	
														or						1	
									Dat	te	E	piration		of	mber						
					Code	٧	(A)	(D)		ercisable		ate	Title		ares						
Stock				7											T						
Option (right to	\$1.25	02/05/2007 ⁽¹⁾		- 1	M			4,375	02	/05/2004	02	2/05/2013	Common	4,	375	\$0	0		D		
buv)																				1	

Explanation of Responses:

- 1. These transactions were made pursuant to the Reporting Person's existing Rule 10b5-1 plan (i.e., a stock trading plan designed to comply with Rule 10b5-1 of the Securities Exchange Act of 1934, as amended). Option was originally granted effective February 5, 2003 under the Issuer's Stock Incentive Plan. Generally, the grant provides for pro rata vesting of 25% per year on each of the first through fourth anniversaries of the grant date. The exercise price was the closing price on the grant date.
- 2. This balance reflects 20,000 restricted stock units granted to the Reporting Person and previously reported on a Form 3 filed July 5, 2006. This amends the Table I, Column 5 balance previously reported on a subsequent Form 4 filed November 21, 2006.

Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an exhibit., mahoney 2006 poa. TXT

Judith A Boyle, Attorney-in-

02/07/2007

** 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 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 instruments, and to provide any necessary copies of such signed forms, documents instruments to The NASDAQ Stock Market and ON Semiconductor Corporation as required by

This power of attorney is effective from the date hereof until April 15, 2007, unless earlier revoked or terminated.

the rules under Section 16 and Rule 144 as in effect from time to time.

/s/ Robert Charles Mahoney Robert Charles Mahoney

Dated: June 29, 2006

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