SEC F	orm 4
-------	-------

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

	OVAL	L
OMB Number:	3235-0287	
Estimated average bur	den	
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).	STATEN

MENT 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

1. Name and Address of Reporting Person [*] Mahoney Robert Charles		rson*	2. Issuer Name and Ticker or Trading Symbol <u>ON SEMICONDUCTOR CORP</u> [ONNN]	(Check	tionship of Reporting Pers all applicable) Director Officer (give title	on(s) to Issuer 10% Owner Other (specify	
(Last) 5005 EAST M	(First) CDOWELL ROA	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 07/03/2007	X	below) Exec VP Sales & M	below)	
, (Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	idual or Joint/Group Filing	(Check Applicable	
PHOENIX	AZ	85008		X	Form filed by One Repo	orting Person	
(City)	(State)	(Zip)			Form filed by More than Person	One Reporting	
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned							

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)					5. Amount of Securities Beneficially Owned Following Reported	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	Transaction(s) (Instr. 3 and 4)		(1130.4)
Common	07/03/2007		М		8,250	Α	\$5.8 1	56,583	D	
Common	07/03/2007		S		8,250	D	\$11.13	48,333	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. Transa Code (8)		of Deri Sec Acq (A) (Disp of (I	erivative curities cu		Expiration Date		Expiration Date // (Month/Day/Year) S		ttion Date Amount of h/Day/Year) Securities Underlying Derivative Security		derivative Securities Beneficially Owned Following Reported Transaction(s)	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						
Stock Option (right to buy)	\$5.81	07/03/2007 ⁽¹⁾		М			8,250	07/03/2007	07/03/2016	Common	8,250	\$0	24,750	D			

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 July 3, 2006 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.

Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an exhibit., mahoney2007poa.TXT

<u>Judith A. Boyle, Attorney-in-</u> Fact	07/05/2007
** 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 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, 2008, unless earlier revoked or terminated.

/s/ ROBERT MAHONEY
Robert Charles Mahoney

Dated: March 1, 2007

G:\SECURITIES\Section 16\POA\2006 POA\Mahoney 2006 POA.doc