FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C	20549
-----------------	-------

Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT OF CHA
obligations may continue. See	
Instruction 1(b).	Filed pursuant to Section

NGES 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* Mahoney Robert Charles (Last) (First) (Middle) 5005 EAST MCDOWELL ROAD (Street) PHOENIX AZ 85008						Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ONNN] 3. Date of Earliest Transaction (Month/Day/Year) 06/07/2011 4. If Amendment, Date of Original Filed (Month/Day/Year)								S. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director				
(City)	(St	ate) (2	Zip)		-										Form filed by More than One Reporting Person			
		Tabl	e I - N	Non-Deriv	ative/	Seci	uritie	s Ac	quire	ed, Di	sposed o	f, or E	Benefici	ally (Owne	ed		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/You						2A. Deemed Execution Date, if any (Month/Day/Year)		·	3. Transaction Code (Instr. 8)				d 5) Sec Ber		ount of ities icially d Following	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		Trans	action(s) 3 and 4)		(
Common 06/07/201					011	11			S		20,000	D	\$10.53	12 ⁽¹⁾	1	01,086	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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			vative irity r. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
c ₁				Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	of Shares						

Explanation of Responses:

1. This disposition transaction was executed in multiple trades at prices ranging from \$ 10.53 to \$ 10.54. The price reported above reflects the weighted average sale price. The Reporting Person hereby undertakes to provide, upon request, to the SEC staff, the Issuer, or a security holder of the Issuer, full information regarding the number of shares and prices at which the transaction was effected.

Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an Exhibit. mahoney2011poa.txt

Judith A. Boyle, Attorney-in-06/09/2011 **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, 2012, unless earlier revoked or terminated.

/s/ ROBERT CHARLES MAHONEY Robert Charles Mahoney

Dated: March 1, 2011