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
obligations may continue. See
Instruction 1(h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-0287								
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l	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* GREEN PETER					2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ONNN]								(Ch	eck all applic Directo	,		ner		
(Last) (First) (Middle) ON SEMICONDUCTOR (M/D A700) 5005 EAST MCDOWELL ROAD						3. Date of Earliest Transaction (Month/Day/Year) 04/03/2006								below)		ted Po	below)		
(Street) PHOENIX AZ 85008				4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)						Line	dividual or Joint/Group Filing (Check Applicable) X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City)	(3	-	(Zip)	- Doris	vativ	, So	curi	tios Ac	auiro	l Die	cnoco	d of	or Bor	oficial	v Owned				
1. Title of Security (Instr. 3) 2. Tran. Date		sactio			A. Deemed xecution Date, any		3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			5. Amou Securitie Benefici Owned F	i. Amount of Securities Beneficially Dwned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
						Cod	e v	Amo	unt	(A) or (D)	Price	Reported Transact (Instr. 3	ion(s)			Instr. 4)			
Common Stock 04/0				04/03	3/200	/2006 ⁽¹⁾		М		20	,000	A	\$4.8	21,5	21,500 ⁽²⁾		D		
Common Stock 04/0			04/03	3/200	/2006 ⁽¹⁾		S		20	,000	D	\$7.5	1,500 ⁽²⁾			D			
			Table II - I					es Acq arrants							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 Da if any (Month/Day/\(^2\)	Code (of		6. Date Exercisal Expiration Date (Month/Day/Year		е	of Securities		es g Security	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Expirat Date		itle	Amount or Number of Shares					
Stock Option (right to	\$4.8	04/03/2006			М			20,000	02/17/2	006 ⁽¹⁾	02/17/2		Common Shares	20,000	\$0	60,00	00	D	

Explanation of Responses:

1. These transactions were each made pursuant to the Reporting Person's existing Rule 10b-1 plan dated August 31, 2005 (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 February 17, 2005 under the Issuer's Stock Incentive Plan. 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 was the closing price on the grant date.

2. Includes 500 shares acquired by the Reporting Person under the Issuer's Employee Stock Purchase Plan from January 1, 2006 through March 31, 2006.

Remarks:

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

Peter Green by Judith A. Boyle as Attorney-in-Fact

04/04/2006

** 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 (Peter Green)

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, 2007, unless earlier revoked or terminated.

/s/ Peter Green Peter Green

Dated: March 15, 2006

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