FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								

3235-0287 OMB Number: 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)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

					or Secu	011 30(11)	OI the	e Investment C	отпрану Аст	01 1940							
1. Name and Address of Reporting Person* GREGOIRE JEROME N					2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP [ONNN]						(Ch	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
											-	X Directo		10% C			
(Last) (First) (Middle) ON SEMICONDUCTOR (M/D A700)					3. Date of Earliest Transaction (Month/Day/Year) 02/17/2005							Officer below)	(give title	Other below)	specify		
5005 EAST MCDOWELL ROAD																	
					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)					
Street)												X Form fi	led by One	Reporting Perso	on		
PHOENIX AZ 85008													Form filed by More than One Reportin Person		orting		
(City)	(Si	tate)	(Zip)														
		Tab	le I - Non	-Derivat	ive Se	curitie	s A	cquired, D	isposed o	f, or Bei	neficial	y Owned	l				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					Execution if any		A. Deemed Execution Date, f any Month/Day/Year) 3. Transaction Code (Instr. 8) 4. Securities Acq Disposed Of (D) (5)		ties Acquire I Of (D) (Ins	ed (A) or tr. 3, 4 and	Beneficia	es Form ally (D) o Following (I) (II	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
								Code V	Amount	(A) or (D)	Price	Transact (Instr. 3 a	ion(s)		(Instr. 4)		
		٦						uired, Dis				Owned					
L. Title of Derivative Security Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Conversion or Exercise (Month/Day/Year) Exercise Price of Derivative (Month/Day/Year) (Month/Day/Year) Figure 1 Figure 2 Figure 2 Figure 2 Figure 3 Figure 2 Figure 3 Figure 3				5. Number 6.		Expiration Date (Month/Day/Year) S		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Cod	de V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares						
	-																

Explanation of Responses:

\$4.8

1. Annual Stock Option Grant to non-employee members of the Board of Directors. Granted effective 2-17-05 under the Issuer's 2000 Stock Incentive Plan, the stock option will vest pro rata in three equal installments on each of the first through third anniversaries of the grant date, subject to continued service as a director with the Issuer, and other terms and conditions of the plan and the related stock option grant agreement. The exercise price is the closing price on the grant date.

02/17/2006⁽¹⁾ 02/17/2015

(Right to

buy)

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

Jerome N. Gregoire by Judith 02/18/2005 A. Boyle as Attorney-in-Fact

7,000

** Signature of Reporting Person Date

7,000

Stock

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).

02/17/2005

** 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.

7,000

POWER OF ATTORNEY (Jerry Gregoire)

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, 2005, unless earlier revoked or terminated.

/s/ Jerry Gregoire Jerry Gregoire

Dated: April 1, 2004

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