

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

1. Name and Address of Reporting Person* <u>KLOSTERBOER ROBERT A.</u> (Last) (First) (Middle) 5005 E. MCDOWELL ROAD (Street) PHOENIX AZ 85008 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>ON SEMICONDUCTOR CORP [ONNN]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>SVP, Custom and Foundry</u>
	3. Date of Earliest Transaction (Month/Day/Year) 03/17/2008	
		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person

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)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common	03/17/2008		A		42,097	A	\$0 ⁽¹⁾	42,097	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. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	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					
Stock Option (right to buy)	\$0.68	03/17/2008		A		27,982		03/17/2008	01/31/2011	Common 27,982	\$0 ⁽²⁾	27,982	D	
Stock Option (right to buy)	\$3.45	03/17/2008		A		38,332		03/17/2008	07/31/2013	Common 38,332	\$0 ⁽³⁾	38,332	D	
Stock Option (right to buy)	\$8.16	03/17/2008		A		27,600		03/17/2008	07/31/2013	Common 27,600	\$0 ⁽⁴⁾	27,600	D	
Stock Option (right to buy)	\$9.14	03/17/2008		A		25,875		07/26/2008	07/26/2014	Common 25,875	\$0 ⁽⁵⁾	25,875	D	
Stock Option (right to buy)	\$10.32	03/17/2008		A		69,000		03/17/2008	08/01/2012	Common 69,000	\$0 ⁽⁶⁾	69,000	D	
Stock Option (right to buy)	\$12.42	03/17/2008		A		34,500		03/17/2008	08/03/2014	Common 34,500	\$0 ⁽⁷⁾	34,500	D	

Explanation of Responses:

- Received a total of 42,097 (18,906 shares of common stock and 23,191 restricted stock units ("RSUs")) of ON Semiconductor Corporation (Issuer) in exchange for a total of 36,606 (16,440 shares of common stock and 20,166 RSUs) of AMIS Holdings, Inc. ("AMIS") in connection with the merger of AMIS into the Issuer ("Merger"). The Merger was effective on March 17, 2008. Pursuant to the Merger, each outstanding share of AMIS common stock and/or right thereto was converted into the right to receive 1.15 shares of the Issuer's common stock. On March 17, 2008, the closing price of the Issuer's common stock was \$4.99 per share. The exchanged RSUs are, among other things, subject to the Issuer's 2000 Stock Incentive Plan ("Plan"), a previous grant agreement, vesting over time (generally), and a conversion and assumption by the Issuer.
- Received in the Merger in exchange for an employee stock option to acquire 24,333 shares of AMIS for \$.78 per share. The exchanged option is, among other things, subject to the Plan, a previous grant agreement, vesting over time (generally), and a conversion and assumption by the Issuer.
- Received in the Merger in exchange for an employee stock option to acquire 33,333 shares of AMIS for \$3.96 per share. The exchanged option is, among other things, subject to the Plan, a previous grant agreement, vesting over time (generally), and a conversion and assumption by the Issuer.
- Received in the Merger in exchange for an employee stock option to acquire 24,000 shares of AMIS for \$9.38 per share. The exchanged option is, among other things, subject to the Plan, a previous grant agreement, vesting over time (generally), and a conversion and assumption by the Issuer.
- Received in the Merger in exchange for an employee stock option to acquire 22,500 shares of AMIS for \$10.50 per share. The exchanged option is, among other things, subject to the Plan, a previous grant agreement, vesting over time (generally), and a conversion and assumption by the Issuer.
- Received in the Merger in exchange for an employee stock option to acquire 60,000 shares of AMIS for \$11.86 per share. The exchanged option is, among other things, subject to the Plan, a previous grant agreement, vesting over time (generally), and a conversion and assumption by the Issuer.
- Received in the Merger in exchange for an employee stock option to acquire 30,000 shares of AMIS for \$14.28 per share. The exchanged option is, among other things, subject to the Plan, a previous grant agreement, vesting over time (generally), and a conversion and assumption by the Issuer.

Remarks:

Judith A. Boyle is signing on behalf of the Reporting Person pursuant to a Power of Attorney attached herein as an exhibit., klosterboer2008poa.TXT

Judith A. Boyle, Attorney-in-Fact

03/19/2008

** 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 A. Klosterboer)

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, and 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, 2009, unless earlier revoked or terminated.

/s/ ROBERT A. KLOSTERBOER
Robert A. Klosterboer

Dated: March 14, 2008

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