FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Washington, D.O. 20043

OMB APPROVAL									
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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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

					UI .	Section	1 30(11)	OI LITE	IIIVESII	Hent C	onipany Act	01 1940							
1. Name and Address of Reporting Person* JACKSON KEITH D						2. Issuer Name and Ticker or Trading Symbol ON SEMICONDUCTOR CORP ONNN								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
JACKSON KEITH D													X	Dire	ctor	10%	10% Owner		
(Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year) 05/05/2010							X	Offic belov	,	belov	Other (specify below)		
5005 EAST MCDOWELL ROAD				03/	03/03/2010							CEO & Pres.							
(Street) PHOENI	X AZ	7 (85008		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
PHOENI	Λ ΑΖ	2 ر	83008											X	Forn	n filed by One	Reporting Per	son	
(City)	(St	ate) ((Zip)		-										Form filed by More than One Reporting Person				
		Tabl	le I - N	Ion-Deriv	vative	Sec	uritie	s Ac	quire	d, Di	isposed o	f, or E	Benefic	ially	Owne	ed			
Date			2. Transact Date (Month/Day		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)					nd 5) So		ount of rities ficially ed Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	(A) or (D) Price			Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common 05/05/20					010	10			A		140,551(1)	A	\$7	\$7.75		93,645	D		
Common 05/05/203				010	10		F	Ш	61,218(2)	D \$7		.75	75 832,427		D				
Common 05/06/				010	10		S		60,000(3)	D \$7.90		004(4)	04 ⁽⁴⁾ 772,427		D				
		Та	able II								oosed of, convertib				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execut if any			action (Instr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exel Expiration I (Month/Day		ate	7. Title and Amount of Securities Underlying Derivative Security (Instrand 4)		Deri Seci (Inst	vative urity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amount or Number of Shares						

Explanation of Responses:

- 1. This transaction reports the acquisition, effective May 5, 2010 of 140,551 shares of common stock resulting from the attainment of a performance goal under an earlier Performance Based Restricted Stock Units Award ("PBRSU Award"), as described more below. The Compensation Committee of the Issuer originally awarded 1,686,609 PBRSUs to the Reporting Person with an effective grant date of March 2, 2009 subject to the Issuers 2000 Stock Incentive Plan and a related award agreement. The PBRSU Award will vest, generally, over a three-year (twelve quarter) period but only upon the Issuer achieving certain adjusted non-GAAP earnings before interest, taxes, depreciation and amortization ("EBITDA") base and target performance measurements as set forth in the PBRSU Award agreement.
- 2. This disposition transaction represents shares withheld by the Issuer pursuant to the Reporting Person's March 2, 2009 award of Performance Based Restricted Stock Units ("PBRSUs"). On May 5, 2010, certain of these units vested. These shares were withheld to satisfy the Reporting Person's withholding obligations for various taxes and similar items. The Issuer will pay these taxes on behalf of the Reporting Person.
- 3. 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).
- 4. This disposition transaction was executed in multiple trades at prices ranging from \$ 7.88 to \$ 7.98. 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. jackson2010poa.TXT

Judith A. Boyle, Attorney-in-

05/07/2010

<u>Fact</u>

** 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 (Keith D. Jackson)

I hereby appoint Donald A. Colvin, 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 \mbox{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, 2011, unless earlier revoked or terminated.

/s/ KEITH D. JACKSON Keith D. Jackson

Dated: March 1, 2010