

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>SMITH JOHN ALEXANDER</u> (Last) (First) (Middle) <u>2 TECH DRIVE</u> (Street) <u>ANDOVER MA 01810</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>MKS INSTRUMENTS INC [MKSI]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title below) Other (specify below) <u>V.P. & Chief Tech Officer</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>02/13/2009</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> 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 Stock	02/13/2009		F ⁽³⁾		3,452	D	\$15.89	6,548	D	
Common Stock	02/17/2009		S		6,548	D	\$15.61	0	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)
					(A)	(D)	Date Exercisable	Expiration Date					
Restricted Stock Unit	(1)						(2)	(2)	Common Stock	16,312	16,312	D	
Stock Option (Right to Buy)	\$32						01/04/2001	01/04/2010	Common Stock	7,500	7,500	D	
Stock Option (Right to Buy)	\$24.75						11/19/2002	11/19/2011	Common Stock	55,000	55,000	D	
Stock Option (Right to Buy)	\$18.44						06/24/2003	06/24/2012	Common Stock	461	461	D	
Stock Option (Right to Buy)	\$27.11						11/11/2004	11/13/2013	Common Stock	24,000	24,000	D	
Stock Option (Right to Buy)	\$29.93						01/05/2005	01/06/2014	Common Stock	6,000	6,000	D	
Stock Option (Right to Buy)	\$14.72						07/30/2005	07/30/2014	Common Stock	2,188	2,188	D	

Explanation of Responses:

- Each restricted stock unit represents the contingent right to receive one share of common stock of MKS Instruments, Inc.
- One half of RSUs shall vest in equal annual installments over three years, and the other half shall be subject to the achievement of performance criteria, and thereafter shall vest in equal annual installments over three years.
- The transactions reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan previously adopted by the reporting person.

/s/Renee M. Donlan POA 02/18/2009

** 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.