

SMITH JOHN ALEXANDER
 Form 4
 February 18, 2009

FORM 4

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549**

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
 SMITH JOHN ALEXANDER

(Last) (First) (Middle)

2 TECH DRIVE

(Street)

ANDOVER, MA 01810

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol

MKS INSTRUMENTS INC [MKSI]

3. Date of Earliest Transaction (Month/Day/Year)

02/13/2009

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

___ Director ___ 10% Owner
 Officer (give title below) ___ Other (specify below)

V.P. & Chief Tech Officer

6. Individual or Joint/Group Filing(Check Applicable Line)

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 Ownership (Instr. 4) | |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|---|
| | | | | (A) or (D) Code V | Amount | 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 |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)

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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 Underlying Securities (Instr. 3 and 4) | 8. Amount or Number of Shares | |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|----------------------------|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| Restricted Stock Unit | <u>(1)</u> | | | | | <u>(2)</u> | <u>(2)</u> | Common Stock | 16,312 |
| Stock Option (Right to Buy) | \$ 32 | | | | | 01/04/2001 | 01/04/2010 | Common Stock | 7,500 |
| Stock Option (Right to Buy) | \$ 24.75 | | | | | 11/19/2002 | 11/19/2011 | Common Stock | 55,000 |
| Stock Option (Right to Buy) | \$ 18.44 | | | | | 06/24/2003 | 06/24/2012 | Common Stock | 461 |
| Stock Option (Right to Buy) | \$ 27.11 | | | | | 11/11/2004 | 11/13/2013 | Common Stock | 24,000 |
| Stock Option (Right to Buy) | \$ 29.93 | | | | | 01/05/2005 | 01/06/2014 | Common Stock | 6,000 |
| Stock Option (Right to Buy) | \$ 14.72 | | | | | 07/30/2005 | 07/30/2014 | Common Stock | 2,188 |

Reporting Owners

Reporting Owner Name / Address

Relationships

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Director 10% Owner Officer Other

SMITH JOHN ALEXANDER
2 TECH DRIVE
ANDOVER, MA 01810

V.P. & Chief Tech Officer

Signatures

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

__Signature of Reporting Date
Person

Explanation of Responses:

- * 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).
- (1) Each restricted stock unit represents the contingent right to receive one share of common stock of MKS Instruments, Inc.
- (2) 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.
- (3) The transactions reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan previously adopted by the reporting person.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.
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