

SMITH JOHN ALEXANDER
 Form 4
 December 19, 2006

FORM 4

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

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).

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

2. Issuer Name and Ticker or Trading Symbol

MKS INSTRUMENTS INC [MKSI]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

V.P. & Chief Tech Officer

(Last) (First) (Middle)

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

12/18/2006

90 INDUSTRIAL WAY

(Street)

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

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

Form filed by One Reporting Person
 Form filed by More than One Reporting Person

WILMINGTON, MA 01887

(City) (State) (Zip)

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)			
			Code	V	Amount					
Common	12/18/2006		M ⁽¹⁾		470	A	\$ 12.97	12,528	D	
Common	12/18/2006		S ⁽¹⁾		470	D	\$ 22.91	12,058	D	
Common	12/18/2006		M ⁽¹⁾		4,375	A	\$ 14.72	16,433	D	
Common	12/18/2006		S ⁽¹⁾		4,375	D	\$ 22.91	12,058	D	

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

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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 Security (Instr. 3 and 4)	Amount or Number of Shares
Stock Option (right to buy)	(2)	12/18/2006		M(1)	470	08/08/1988(2) 08/08/1988(3)	Common	470
Stock Option (right to buy)	(2)	12/18/2006		M(1)	4,375	08/08/1988(2) 08/08/1988(3)	Common	4,375

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SMITH JOHN ALEXANDER 90 INDUSTRIAL WAY WILMINGTON, MA 01887			V.P. & Chief Tech Officer	

Signatures

By: Joseph M. Tocci
/ POA

12/19/2006

__Signature of Reporting
Person

Date

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) The transactions reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan previously adopted by the reporting person.

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(2) Stock Option Grants include multiple vest dates.

(3) Expires 10 years after date of grant

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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