FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* SMITH JOHN ALEXANDER						2. Issuer Name and Ticker or Trading Symbol MKS INSTRUMENTS INC [MKSI]									eck all applic Director	able)	g Person(s) to Issu 10% Ow Other (s		ner
(Last) (First) (Middle) 90 INDUSTRIAL WAY						3. Date of Earliest Transaction (Month/Day/Year) 12/18/2006									below)	Officer (give title below) V.P. & Chief Tech C		below)	Scony
(Street) WILMINGTON MA 01887 (City) (State) (Zip)					4.	If Amo	endme	ent, Dat	e of C	Priginal F	Filed	(Month/Day	Line	ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Ta	ble I - No	n-Dei	rivativ	/e Se	cur	ities <i>F</i>	Acqu	ıired,	Dis	posed of	, or Ben	eficially	/ Owned				
1. Title of Security (Instr. 3) 2. Transa Date (Month/L						- 1	2A. Deemed Execution Date, if any (Month/Day/Year)			3. Transac Code (II			es Acquired Of (D) (Insti		Beneficia Owned F	s ally ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
											v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)			1	Instr. 4)
Common	12/	/18/20	06				M ⁽¹⁾		470	A	\$12.97	7 12,	12,528		D				
Common 12/						06				S ⁽¹⁾		470	D	\$22.91	12,	12,058		D	
Common 12/					/18/20	06				M ⁽¹⁾		4,375	A	\$14.72	16,433]	D	
Common 12/18					/18/20	06				S ⁽¹⁾		4,375	D	\$22.93	12,058]	D	
			Table II -									osed of, onvertib			Owned				•
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)		of E			ate Exerc iration D nth/Day/`	ate	e and 7. Title ar Amount o Securitie Underlyin Derivativ (Instr. 3 a		f s g Security	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e los s li lly l	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)
					Code	v	(A)	(D)	Date Exer	: rcisable		kpiration ate	Title	Amount or Number of Shares					
Stock Option (right to buy)	(2)	12/18/2006			M ⁽¹⁾			470	08/0	8/1988 ⁽²	08	3/08/1988 ⁽³⁾	Common	470	\$0	56,86	6	D	
Stock Option (right to buy)	(2)	12/18/2006			M ⁽¹⁾			4,375	08/0	8/1988 ⁽²⁾	08	3/08/1988 ⁽³⁾	Common	4,375	\$0	52,49	1	D	

Explanation of Responses:

- 1. The transactions reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan previously adopted by the reporting person.
- 2. Stock Option Grants include multiple vest dates.
- 3. Expires 10 years after date of grant

Remarks:

By: Joseph M.Tocci / POA ** Signature of Reporting Person 12/19/2006

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.