FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

ashington, D.C. 20549	
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OMB APP	ROVAL
OMB Number:	3235-028
Estimated average bu	urden

5. Relationship of Reporting Person(s) to Issuer

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

1. Name and Address of Reporting Person*

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

2. Issuer Name and Ticker or Trading Symbol

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP hours per response: 0.5 or Section 30(h) of the Investment Company Act of 1940

SMITH JOHN ALEXANDER					MKS INSTRUMENTS INC [MKSI]										(Che	ck all applic Directo	r		10% Ov			
(Last) 2 TECH I	,	rst)	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 04/26/2010										below)	Officer (give title below) V.P. & Chie		Other (s below) n Officer	pecify		
(Street) ANDOVE	ER M	A	01810		4. 1	f Am	endme	nt, Date	of Original Filed (Month/Day/Year)							lividual or Joint/Group Filing (Check Applic Form filed by One Reporting Person Form filed by More than One Reportin				1		
(City)	(S	tate)	(Zip)													Person						
		Tab	le I - Nor	n-Deri	vativ	e Se	curit	ies A	cqı	uired,	Disp	osed o	f, or	Bene	ficiall	y Owned						
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Yea			Execution Date,		<i>'</i>	Code (Instr.						Securitie Benefici Owned F	Amount of ecurities eneficially wned Following		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership				
										Code V		Amount	(A (D	() or ()	Price	Transact	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common S	Stock			04/2	6/201	0				M		461		Α	\$18.4	4	461		461		D	
Common S	Stock			04/2	6/201	0				M		2,188	3	Α	\$14.72	2 2,	649	9 D				
Common S	Stock			04/2	6/201	0				S		2,649		D	\$24.3	3	0		D			
		-	Γable ΙΙ -							,		osed of, onvertil			•	Owned						
Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	4. Transaction Code (Instr. 8) 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) Code V (A) (D)		vative urities uired or oosed o) tr. 3, 4	6. Date Exercisa Expiration Date (Month/Day/Year				7. Title and Amount of Securities Underlying Derivative Sect (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)			
							(A)			ate xercisable		Expiration Date	Title	An or Nu of Sh								
Stock Option (Right to Buy)	\$18.44	04/26/2010			М			461	06/	24/2003 ⁽	1) 0	06/24/2012	Comm		461	\$0	0		D			
Stock Option (Right to	\$14.72	04/26/2010			M			2,188	07/	30/2005 ⁽	2) 0	7/30/2014	Comm		2,188	\$0	0		D			

Explanation of Responses:

- 1. Vests 100% after one year.
- 2. 25% after first year, 6.25% each quarter thereafter total 4 years.

/s/Renee M. Donlan POA

04/28/2010

** 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.