FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPROVAL								
	OMB Number:	3235-0287							
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l	hours per response:	0.5							

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

1. Name and Address of Reporting Person* <u>Loomis Paul</u>						2. Issuer Name and Ticker or Trading Symbol MKS INSTRUMENTS INC [MKSI]											all appli Directo	or		10% O	wner
(Last) (First) (Middle) C/O 2 TECH DRIVE, SUITE 201						3. Date of Earliest Transaction (Month/Day/Year) 04/11/2013											below)		Other (sp below) M, Astex		specify
(Street) ANDOVER MA 01810 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)										Indivi	ividual or Joint/Group Filing (Check Applicable 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. Transac Date (Month/Da						ar) i	2A. Deemed Execution Date, if any (Month/Day/Year)		,]	Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				4 and Securit Benefic Owned		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
				[Code	v			Amount		(A) or (D)	Price	- 1	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)			
Common Stock 04/11/2						2013			M		2,043		A	(1)	11,324		24.213	.3 D			
Common Stock 04/11/2							2013			F ⁽²⁾		667		D \$20		84	10,657.213			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. Deeme Execution if any (Month/Da	Date,	4. Transaction Code (Instr 8)		n of		Exp	oate Exe piration onth/Da	Date	ble and	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			Der Sec	. Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exe	e ercisabl		xpiration ate	Title		Amount or Number of Shares						
Restricted	(1)	04/11/2013			M			2,043		(3)		(3)		nmon	2,043		(1)	8,936.9	4	D	

Explanation of Responses:

- $1. \ Each \ restricted \ stock \ unit \ represents \ the \ contingent \ right \ to \ receive \ one \ share \ of \ common \ stock \ of \ MKS \ Instruments, \ Inc.$
- $2. \ This \ transaction \ was \ effected \ pursuant \ to \ a \ Rule \ 10b5-1 \ trading \ plan \ previously \ adopted \ by \ the \ reporting \ person.$
- 3. The RSUs vest in equal annual installments over three years

<u>/s/Renee M. Donlan POA</u> <u>04/12/2013</u>

** 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.