FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL					
	OMB Number:	3235-0287					
	Estimated average burd	en					
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 ]									eck all appl Direct	icable) or	g Pers	rson(s) to Issuer  10% Owner  Other (specify		
(Last) C/O 2 TI	Last) (First) (Middle) C/O 2 TECH DRIVE, SUITE 201						3. Date of Earliest Transaction (Month/Day/Year) 05/29/2012											below)	specify	
(Street) ANDOV (City)	ANDOVER MA 01810					4. If Amendment, Date of Original Filed (Month/Day/Year)									Y Form	ridual 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) E	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. ) 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				Benefic	es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount		(A) or (D)	Price	Transac (Instr. 3	tion(s)			(Instr. 4)	
Common Stock 05/29/2					/2012	2012		М		4,000	0	A	(1)	5,	5,394		D			
Common	n Stock 05/29/2012							F <sup>(2)</sup>		1,268 D		\$26.4	3 4	4,126		D				
		Т	able II -								osed of converti				Owned					
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/Day	Date, Trans Code		nsaction de (Instr.		of E		5. Date Exercisat Expiration Date Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	O N O	umber						
Restricted Stock Unit	(1)	05/29/2012			M			4,000	(3)		(3)	Com		4,000	(1)	8,178.6	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 three years after grant date.

/s/Renee M. Donlan POA 05/30/2012

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.