$\square$ 

## 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

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

	JVAL
OMB Number:	3235-0287
Estimated average burd	en
hours per response:	0.5

1. Name and Address of Reporting Person*           Loomis Paul           (Last)         (First)         (Middle)           C/O 2 TECH DRIVE, SUITE 201		on*	2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>MKS INSTRUMENTS INC</u> [ MKSI ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner
		,	3. Date of Earliest Transaction (Month/Day/Year) 03/28/2011	X Officer (give title Other (specify below) below) VP & GM, Astex
(Street) ANDOVER	МА	01810	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person
(City)	(State)	(Zip)		r erson

## 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. Transa Code ( 8)					5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(	
Common Stock	03/28/2011		М		4,225	A	(1)	4,225	D		
Common Stock	03/28/2011		F <sup>(2)</sup>		1,342	D	\$32.32	2,883	D		
Common Stock	03/29/2011		S <sup>(2)</sup>		2,883	D	\$31.737 <sup>(3)</sup>	0	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. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of Deri Sec Acq (A) o Disp of (E (Inst	of Expiration Date Derivative (Month/Day/Year) Securities Acquired		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Restricted Stock Unit	(1)	03/28/2011		М			4,225	(4)	(4)	Common Stock	4,225	(1)	9,000	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. This transaction was executed in multiple trades at prices ranging from \$31.59 to \$31.96 The price reported above reflects the weighted average sale price. The reporting person hereby undertakes to provide, upon request, the full information regarding the number of shares and prices at which the transaction was effected.

4. The RSUs fully vest three years from grant date.

/s/Renee M. Donlan POA 03/30/2011

\*\* 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.