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).

1. Name and Address of Reporting Person*

COLELLA GERARD G

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

10% Owner

5. Relationship of Reporting Person(s) to Issuer (Check all applicable)

Director

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

MKS INSTRUMENTS INC MKSI

2. Issuer Name and Ticker or Trading Symbol

(Last) 2 TECH	`	rirst) (Middle)				3. Date of Earliest Transaction (Month/Day/Year) 03/10/2010								X below) below) VP, Chief Operating Officer					
(Street) ANDOVER MA 01810				4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								ne) X F	ividual or Joint/Group Filing (Check Applic Form filed by One Reporting Person Form filed by More than One Reportin Person				n	
(City)	(S	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. TransDate (Month.					ction	2A. Exe	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			5. Amount of Securities Beneficially Owned Following		s Ily ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
								Code	v	Amount	(A) or (D)	or Price Reported Transaction(s) (Instr. 3 and 4)		on(s)			(Instr. 4)		
Common	03/10/2010					M		2,024	A	\$0	\$0 2,0		35	D					
Common	03/10/2010					M		2,917	A	\$0		4,952		D					
Common	03/10/2010					F ⁽¹⁾		1,570	D	\$19.0	.07 3,382		82	D					
Common Stock					03/11/2010				S		3,371	D	\$19.0).03 ⁽²⁾		11			
	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. Deer Execution if any (Month/I		4. Transaction Code (Instr. 8)		on of		6. Date Exercis Expiration Date (Month/Day/Ye		te	7. Title an Amount o Securities Underlyin Derivative (Instr. 3 an	f g Security	8. Price Deriva Securi (Instr. !	ive (1)	9. Number of derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	y Di or (I)	LO. Dwnership Form: Direct (D) or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa	ıble	Expiration Date	Title	Amount or Number of Shares						
Restricted Stock Unit	(3)	03/10/2010			M			2,024	(4)		(4)	Common Stock	2,024	\$0	$ \top $	28,099		D	

Explanation of Responses:

Restricted

- 1. This transaction was effected pursuant to a Rule 10b5-1 trading plan previously adopted by the reporting person to satisfy tax withholding obligations.
- 2. This transaction was executed in multiple trades at prices ranging from \$19.02 to \$19.04. 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.
- 3. Each restricted stock unit represents the contingent right to receive one share of common stock of MKS Instruments, Inc.
- 4. These RSUs are subject to the achievement of performance criteria determined in the first year of the grant and thereafter vests in equal annual installments over three years.
- 5. The RSUs vest in equal annual installments over three years

03/10/2010

/s/Renee M. Donlan POA 03/12/2010

** Signature of Reporting Person

Common

2.917

D

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.