FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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

Quirk Brian Charles (Mor			2. Date of Eve Requiring Sta (Month/Day/Y 03/01/2014	tement ear)	3. Issuer Name and Ticker or Trading Symbol MKS INSTRUMENTS INC [MKSI]							
(Last) 2 TECH DRIV	(First) 7E. SUITE 201	(Middle)			Relationship of Reporting Per (Check all applicable) Director	son(s) to Issuer 10% Owner	(1)	5. If Amendment, Date of Original Filed (Month/Day/Year)				
				X Officer (give title below)	Other (spec below)		6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)					Sr. VP, Global O	erations		X Form filed by One Reporting Person				
ANDOVER	MA	01810						Form filed by Reporting Pe	More than One erson			
(City)	(State)	(Zip)										
Table I - Non-Derivative Securities Beneficially Owned												
1. Title of Security (Instr. 4)				2. Amount of Securities Beneficially Owned (Instr. 4)			4. Nature of Indirect Beneficial Ownership (Instr. 5)					
Common Stock				3,152.635	D							
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)												
1. Title of Derivative Security (Instr. 4)		2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversi or Exerci Price of		6. Nature of Indirect Beneficial Ownership (Instr. 5)				
			Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Derivativ Security					
Restricted Stoc	k Unit		(1)	(1)	Common Stock	17,040.25	(2)	D				
Restricted Stoc	k Unit		(3)	(3)	Common Stock	14,428.831	(2)	D				

Explanation of Responses:

- 1. The RSUs vest in equal annual installments over three years from the respective original grant date. The amount above comprises of: 2,113.136 which was granted on April 11, 2011; 4,938.407 which was granted on April 2, 2012; 3,962.536 which was granted on February 25, 2013; and 6,026.171 on February 10, 2014.
- $2. \ Each \ restricted \ stock \ unit \ represents \ the \ contingent \ right \ to \ receive \ one \ share \ of \ common \ stock \ of \ MKS \ Instruments, \ Inc.$
- 3. 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 of over three years from the respective original grant date. The amount above comprises of 5,389.575 which was granted on on February 25, 2013 and 9,039.256 on February 10, 2014.

/s/Renee M. Donlan POA 03/06/2014

** 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 5 (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.