FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

hours per response:

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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(n) of the investment Company Act of 1940			
1. Name and Addres Quirk Brian (s of Reporting Person* Charles				tionship of Reporting Person all applicable) Director Officer (give title	10% Owner Other (specify
(Last) 2 TECH DRIVE	(First) (Middle) E, SUITE 201		` , ,		Sr. VP, Global Ope	below) erations
(Street) ANDOVER	MA	01810	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv	idual or Joint/Group Filing (C Form filed by One Reporti Form filed by More than C	ing Person
(City)	(State)	(Zip)				

Table I. Non Derivative Securities Acquired Disposed of or Reneficially Owned

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 (I 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
			Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)		(Instr. 4)		
Common Stock	02/15/2018		M		2,181.553	A	(1)	14,044.436	D			
Common Stock	02/15/2018		M		1,773.149	A	(1)	15,817.585	D			
Common Stock	02/15/2018		M		2,805	A	(1)	18,622.585	D			
Common Stock	02/15/2018		M		2,157	A	(1)	20,779.585	D			
Common Stock	02/15/2018		M		1,489	A	(1)	22,268.585	D			
Common Stock	02/15/2018		M		1,230	A	(1)	23,498.585	D			
Common Stock	02/15/2018		F ⁽²⁾		3,858	D	\$111.1	19,640.585	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)			ate			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
	Security			Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Reported Transaction(s) (Instr. 4)	(1) (111301. 4)	
Restricted Stock Unit	(1)	02/15/2018		A		3,375.338		(3)	(3)	Common Stock	3,375.338	(1)	9,159.186	D	
Restricted Stock Unit	(1)	02/15/2018		A		2,250.225		(4)	(4)	Common Stock	2,250.225	(1)	6,870.992	D	
Restricted Stock Unit	(1)	02/15/2018		М			2,181.553	(5)	(5)	Common Stock	2,181.553	(1)	10,077.848	D	
Restricted Stock Unit	(1)	02/15/2018		М			1,773.149	(6)	(6)	Common Stock	1,773.149	(1)	8,007.767	D	
Restricted Stock Unit	(1)	02/15/2018		М			2,805	(7)	(7)	Common Stock	2,805	(1)	7,272.848	D	
Restricted Stock Unit	(1)	02/15/2018		М			2,157	(8)	(8)	Common Stock	2,157	(1)	5,850.767	D	
Restricted Stock Unit	(1)	02/15/2018		М			1,489	(9)	(9)	Common Stock	1,489	(1)	5,783.848	D	
Restricted Stock Unit	(1)	02/15/2018		М			1,230	(10)	(10)	Common Stock	1,230	(1)	4,620.767	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. These RSUs are subject to the achievement of performance criteria determined in the first year of grant and thereafter vest in three equal annual installments beginning on February 15, 2019, provided that if, in any vesting year, February 15th is not a business day, such vesting shall occur on the next business day.
- 4. These RSUs vest in three equal annual installments commencing on February 15, 2019, provided that if, in any vesting year, February 15th is not a business day, such vesting shall occur on the next business day.
- 5. These RSUs are subject to the achievement of performance criteria determined in the first year of grant and thereafter vest in three equal annual installments beginning on February 15, 2016, provided that if, in any vesting year, February 15th is not a business day, such vesting shall occur on the next business day.
- 6. These RSUs vest in three equal annual installments commencing on February 15, 2016, provided that if, in any vesting year, February 15th is not a business day, such vesting shall occur on the next business day.
- 7. These RSUs are subject to the achievement of performance criteria determined in the first year of grant and thereafter vest in three equal annual installments beginning on February 15, 2017, provided that if, in any vesting year, February 15th is not a business day, such vesting shall occur on the next business day.
- 8. These RSUs vest in three equal annual installments commencing on February 15, 2017, provided that if, in any vesting year, February 15th is not a business day, such vesting shall occur on the next business day.
- 9. These RSUs are subject to the achievement of performance criteria determined in the first year of grant and thereafter vest in three equal annual installments beginning on February 15, 2018, provided that if, in any vesting year, February 15th is not a business day, such vesting shall occur on the next business day.
- 10. These RSUs vest in three equal annual installments commencing on February 15, 2018, provided that if, in any vesting year, February 15th is not a business day, such vesting shall occur on the next business day.

/s/ M. Kathryn Rickards, attorney-in-fact

02/16/2018

Date

** Signature of Reporting Person

 * 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.

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