Common Stock

#### FORM 4

### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL	

OMB Number: 3235-0287 Estimated average burden hours per response 0.5

D

D

D

D

D

D

D

#### 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

1. Name and Address of Reporting Person*  BAGSHAW SETH H			2. Issuer Name <b>and</b> Ticker or Trading Symbol  MKS INSTRUMENTS INC [ MKSI ]						heck	ionship of Reporting I all applicable) Director Officer (give title	10%	uer Owner (specify		
(Last) 2 TECH DRIVE,	(First) SUITE 201	(Middle)	3. Date of 02/15/2	of Earliest Transacti	ion (Mor	nth/Day	//Year)			X	below)	belov ) & Treasurer	<i>ı</i> )`	
(Street) ANDOVER	MA	01810	4. If Ame	4. If Amendment, Date of Original Filed (Month/Day/Year)						Indivi X	dividual 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)												
		Table I - No	n-Derivative S	Securities Acq	uired,	Disp	osed of, or	Benef	icially	/ Ow	ned			
1. Title of Security (	Instr. 3)		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)  4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4)			)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			

v

Amount

5,234,128

3,782,518

6.914

4,515

3,574

2.954

10,671

Code

М

M

M

M

M

M

F<sup>(2)</sup>

02/15/2018

02/15/2018

02/15/2018

02/15/2018

02/15/2018

02/15/2018

02/15/2018

Price

Α

Α

A

A

A

Α

D

(1)

(1)

(1)

(1)

(1)

(1)

\$111.1

17,000,448

20.782.966

27,696.966

32,211.966

35,785.966

38,739,966

28,068.966

# 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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)				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)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Reported Transaction(s) (Instr. 4)	(i) (iiisti. 4)	
Restricted Stock Unit	(1)	02/15/2018		A		10,126.013		(3)	(3)	Common Stock	10,126.013	(1)	24,189.312	D	
Restricted Stock Unit	(1)	02/15/2018		A		5,850.585		(4)	(4)	Common Stock	5,850.585	(1)	16,275.271	D	
Restricted Stock Unit	(1)	02/15/2018		M			5,234.128	(5)	(5)	Common Stock	5,234.128	(1)	24,551.299	D	
Restricted Stock Unit	(1)	02/15/2018		M			3,782.518	(6)	(6)	Common Stock	3,782.518	(1)	17,893.686	D	
Restricted Stock Unit	(1)	02/15/2018		М			6,914	(7)	(7)	Common Stock	6,914	(1)	17,637.299	D	
Restricted Stock Unit	(1)	02/15/2018		М			4,515	(8)	(8)	Common Stock	4,515	(1)	13,378.686	D	
Restricted Stock Unit	(1)	02/15/2018		М			3,574	(9)	(9)	Common Stock	3,574	(1)	14,063.299	D	
Restricted Stock Unit	(1)	02/15/2018		М			2,954	(10)	(10)	Common Stock	2,954	(1)	10,424.686	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, attorneyin-fact

02/1<u>6/2018</u>

\*\* 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.