UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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obligations may continue. See
Instruction 1(b).

FORM 4

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* Werth Dennis L			2. Issuer Name and Ticker or Trading Symbol <u>MKS INSTRUMENTS INC</u> [MKSI]		tionship of Reporting Perso all applicable) Director Officer (give title below)	n(s) to Issuer 10% Owner Other (specify below)
(Last) 2 TECH DRIVE SUITE 201	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 02/15/2017		Sr. VP, Business	,
(Street) ANDOVER	MA	01810	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv X	vidual or Joint/Group Filing (Form filed by One Repor Form filed by More than (ting Person
(City)	(State)	(Zip) Table I - Non-Deriv	vative Securities Acquired, Disposed of, or Benefic	ially C	wned	

curities 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)		(1130.4)	
Common Stock	02/15/2017		М		2,013	A	(1)	2,013	D		
Common Stock	02/15/2017		М		2,033	A	(1)	4,046	D		
Common Stock	02/15/2017		М		2,705	A	(1)	6,751	D		
Common Stock	02/15/2017		М		732	A	(1)	7,483	D		
Common Stock	02/15/2017		F ⁽²⁾		2,878	D	\$ 6 7.7	4,605	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)		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)		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	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		Transaction(s) (Instr. 4)		
Restricted Stock Unit	(1)	02/15/2017		Α		7,754.801		(3)	(3)	Common Stock	7,754.801	(1)	13,794.332	D	
Restricted Stock Unit	(1)	02/15/2017		A		5,169.867		(4)	(4)	Common Stock	5,169.867	(1)	36,322.275	D	
Restricted Stock Unit	(1)	02/15/2017		A		427		(4)	(4)	Common Stock	427	(1)	36,749.275	D	
Restricted Stock Unit	(1)	02/15/2017		М			2,013	(5)	(5)	Common Stock	2,013	(1)	11,781.332	D	
Restricted Stock Unit	(1)	02/15/2017		М			2,033	(6)	(6)	Common Stock	2,033	(1)	34,716.275	D	
Restricted Stock Unit	(1)	02/15/2017		М			2,705	(7)	(7)	Common Stock	2,705	(1)	32,011.275	D	
Restricted Stock Unit	(1)	02/15/2017		М			732	(7)	(7)	Common Stock	732	(1)	31,279.275	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, 2018, 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, 2018, 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, 2017, 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, 2017, 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 vest in three annual installments as follows: 20% of the RSUs vests on February 15, 2017, 30% of the RSUs vests on February 15, 2018 and the remaining 50% of the RSUs vests 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.

/s/ M. Kathryn Rickards,

attorney-in-fact ** Signature of Reporting Person 02/17/2017 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.

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