SEC Form 4														
FORM 4	UNITE	D STA	TESS	SECURITIE: Washing	SION	OMB APPROVAL								
Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).	STA	TEMEI File	F	OMB Number: 3235-0287 Estimated average burden hours per response: 0.5										
1. Name and Address of Reporting Person* Burke Kathleen Flaherty				er Name <b>and</b> Ticker SINSTRUME			(Check	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify						
(Last)(First)C/O MKS INSTRUMENTS, INC.2 TECH DRIVE, SUITE 201	(Middle)		3. Date 02/15/	of Earliest Transac /2022	ction (Mo	onth/D	0ay/Year)			below) Sr. VF	?, GC	below) & Secretary		
(Street) ANDOVER MA	01810		4. If Am	nendment, Date of (	Driginal	Filed	(Month/Day/Yea	ur)	6. Indiv Line) X	Form filed by	y One	Filing (Check App Reporting Person than One Report	n	
(City) (State)	(Zip)	n Davis				Die	wared of a	ficially C						
1. Title of Security (Instr. 3)		able I - Non-Deriva 2. Transac Date (Month/Dat		2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities A Disposed Of (D	cquired (	A) or	5. Amount of Securities Beneficially Owned Follow Reported	F (C	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)			(1150.4)	
Common Stock		02/15/	2022		М		1,290.831	A	(1)	42,089.74	41	D		
Common Stock		02/15/	2022		М		1,574.183	A	(1)	43,663.92	24	D		
Common Stock		02/15/	2022		М		1,844	A	(1)	45,507.92	24	D		
Common Stock		02/15/	2022		М		1,281	A	(1)	46,788.92	24	D		
Common Stock	02/15/	2022		М		2,032	A	(1)	48,820.92	24	D			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned lo a nute calle warrante onti

М

**F**<sup>(2)</sup>

1.016

3,708

(1)

\$152.55

Α

D

49.836.924

46,128.924

D

D

(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)		Transaction Derivative Code (Instr. Securities		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 Transaction(s)	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		(Instr. 4)		
Restricted Stock Unit	(1)	02/15/2022		М			1,290.831	(3)	(3)	Common Stock	1,290.831	(1)	19,150.28	D	
Restricted Stock Unit	(1)	02/15/2022		М			1,574.183	(4)	(4)	Common Stock	1,574.183	(1)	17,576.097	D	
Restricted Stock Unit	(1)	02/15/2022		М			1,844	(5)	(5)	Common Stock	1,844	(1)	15,732.097	D	
Restricted Stock Unit	(1)	02/15/2022		М			1,281	(6)	(6)	Common Stock	1,281	(1)	14,451.097	D	
Restricted Stock Unit	(1)	02/15/2022		М			2,032	(7)	(7)	Common Stock	2,032	(1)	12,419.097	D	
Restricted Stock Unit	(1)	02/15/2022		М			1,016	(8)	(8)	Common Stock	1,016	(1)	11,403.097	D	

## Explanation of Responses:

Common Stock

Common Stock

1. Each restricted stock unit (RSU) represents the contingent right to receive one share of common stock of MKS Instruments, Inc.

02/15/2022

02/15/2022

2. This transaction was effected pursuant to a Rule 10b5-1 trading plan previously adopted by the reporting person.

3. These RSUs were subject to performance criteria, the achievement of which was determined on January 27, 2020, and thereafter vest in three equal annual installments beginning on February 15, 2020, 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, 2020, 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 were subject to performance criteria, the achievement of which was determined on January 25, 2021, and thereafter vest in three equal annual installments beginning on February 15, 2021, 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, 2021, 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 were subject to performance criteria, the achievement of which was determined on January 21, 2022, and thereafter vest in three equal annual installments beginning on February 15, 2022, 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, 2022, 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, attornev-in-fact

02/16/2022

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 $\ast$  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.