FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

	Check this box if no longer subjec
	to Section 16. Form 4 or Form 5
\cup	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

	Name and Address of Reporting Person* Burke Kathleen Flaherty ast) (First) (Middle)					2. Issuer Name and Ticker or Trading Symbol MKS INSTRUMENTS INC [MKSI] 3. Date of Earliest Transaction (Month/Day/Year) 08/07/2023									tionship of Reporti all applicable) Director Officer (give title below)		10% O Other (below)	Owner (specify
2 TECH	S INSTRU		4. If Amendment, Date of Original Filed (Month/Day/Year)									EVP, GC & Secretary 6. Individual or Joint/Group Filing (Check Application) X Form filed by One Reporting Person						
(Street) ANDOV	ANDOVER MA 01810												Form filed by More than One Reporting Person					oorting
(City) (State) (Zip)					Rule 10b5-1(c) Transaction Indication Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.													
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of	Security (Ins	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution D if any (Month/Day		ate,	3. Transaction Code (Instr. 8)		on Di				5)	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	e V	/ Ai	mount	(A) or (D)	Price		Repo Trans	oorted nsaction(s) etr. 3 and 4)		nsu. 4)	(instr. 4)
Common	Stock	08/07/2023			S				6,186	D	\$101.0837(1)		48,114.675			D		
Common	Stock	08/07/2023			S			5	5,377.067	D	\$101.40	008(2)	42,	42,737.608		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. Transac Code (II 8)		5. Numl of Deriv Secu Acqu (A) of Dispo of (D) (Instrand 5	rative rities iired r osed)	6. Date Exercisable an Expiration Date (Month/Day/Year) Date Expiration Expiration Date Expiration Date Expiration Date Expiration Date			Am Sec Und Der Sec (Ins	Amount of Number of Shares	t r				10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

- 1. This transaction was executed in multiple trades at prices ranging from \$101.080 to \$101.260. The price reported above reflects the weighted average sale price. The reporting person hereby undertakes to provide, upon request, the full information regarding the number of shares and prices at which the transaction was effected.
- 2. This transaction was executed in multiple trades at prices ranging from \$101.350 to \$101.485. The price reported above reflects the weighted average sale price. The reporting person hereby undertakes to provide, upon request, the full information regarding the number of shares and prices at which the transaction was effected.

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

08/08/2023

** 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.