FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Machinatan	D C	20540	
Nashington,	D.C.	20049	

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP
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OMB APPE	ROVAL
OMB Number:	3235-0287
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hours per response:	0.5

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(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  Moloney Jacqueline F					2. Issuer Name <b>and</b> Ticker or Trading Symbol  MKS INSTRUMENTS INC [ MKSI ]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
IVIOIOII	<u> y sacque</u>	IIIIC I										X	Direc	tor		10% O	wner		
		MENTS, INC.	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 12/01/2022									Office below	er (give title /)		Other ( below)	specify
2 TECH	DRIVE, SU	ЛТЕ <b>20</b> 1			4. If A	Amend	ment,	Date o	f Origina	al File	d (Month/Da	y/Year)		6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)														X	Form	filed by On	e Rep	orting Pers	on
ANDOV	ER M.	<b>A</b> 0	1810												Form Perso	filed by Mo	re thai	n One Rep	orting
(City)	(St	ate) (Z	Zip)																
		Table	I - No	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	posed of	, or B	enefi	cially	/ Own	ed			
1. Title of Security (Instr. 3)  2. Transact Date (Month/Day			Execution Date,		3. Transaction Code (Instr. 8)  4. Securities Acqu Disposed Of (D) (I				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)						
										v	Amount	(A) (D)	Pri	ico Transa		ction(s) 3 and 4)			(111041. 4)
Common Stock 12/01/2				2022		S <sup>(1)</sup>		225	D	\$8	3.86	.86 9,909.327		D 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)	rative   Conversion   Date   Execution Date,   rity   or Exercise   (Month/Day/Year)   if any		4. Transa Code ( 8)			6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Date Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)  Amoun or Numbe of Title Shares		De Ser (In:	Price of rivative curity str. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	y	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 effected pursuant to a Rule 10b5-1 trading plan previously adopted by the reporting person.

/s/ M. Kathryn Rickards, 12/02/2022 attorney-in-fact

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.