

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL	
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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* <u>Williams John Edward</u> _____ (Last) (First) (Middle) C/O MKS INSTRUMENTS, INC. 2 TECH DRIVE, SUITE 201 _____ (Street) ANDOVER MA 01810 _____ (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 05/12/2024	3. Issuer Name and Ticker or Trading Symbol <u>MKS INSTRUMENTS INC [MKSI]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) EVP & GM, PSD	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	1,174	D	

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Restricted Stock Unit	(1)	(1)	Common Stock	914.903	(2)	D	
Restricted Stock Unit	(3)	(3)	Common Stock	658.031	(2)	D	
Restricted Stock Unit	(4)	(4)	Common Stock	1,893.285	(2)	D	
Restricted Stock Unit	(5)	(5)	Common Stock	3,480.714	(2)	D	

Explanation of Responses:

- These restricted stock units (RSUs) were subject to performance criteria, the achievement of which was determined on February 8, 2023, and will vest on February 18, 2025.
- Each RSU represents the contingent right to receive one share of common stock of MKS Instruments, Inc.
- These RSUs vest on February 18, 2025.
- These RSUs vest in two equal annual installments commencing on August 15, 2024, provided that if, in any vesting year, August 15th is not a business day, such vesting shall occur on the next business day.
- These RSUs vest in two equal annual installments commencing on April 17, 2025, provided that if, in any vesting year, April 17th is not a business day, such vesting shall occur on the next business day.

Remarks:

Exhibit 24 - Power of Attorney

/s/ M. Kathryn Rickards, 05/15/2024
attorney-in-fact

** 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 5 (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.

LIMITED POWER OF ATTORNEY FOR SECTION 16 REPORTING OBLIGATIONS

Know all by these present that the undersigned hereby constitutes and appoints each of Kathleen F. Burke, M. Kathryn Rickards and James Kruger, signing singly, the undersigned's true and lawful attorney-in-fact to:

- 1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer and/or director of MKS Instruments, Inc. (the "Company"), Forms 3, 4, 5 and 144 (collectively, the "Forms") in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder;
- 2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Forms, complete and execute any amendment or amendments thereto, and timely file such Forms with the United States Securities and Exchange Commission and any stock exchange or similar authority; and
- 3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Limited Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this Limited Power of Attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

This Limited Power of Attorney shall supersede any power of attorney previously granted by the undersigned with respect to the subject matter herein and shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4, 5 and 144 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact. This Limited Power of Attorney may be filed with the SEC as a confirming statement of the authority granted herein.

IN WITNESS WHEREOF, the undersigned has caused this Limited Power of Attorney to be executed as of this 7th day of May 2024.

/s/ John E. Williams

John E. Williams