

BERLINGHIERI LEO  
Form 4  
April 28, 2010

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
**BERLINGHIERI LEO**

(Last) (First) (Middle)

2 TECH DRIVE

(Street)

ANDOVER, MA 01810

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol

**MKS INSTRUMENTS INC [MKSI]**

3. Date of Earliest Transaction (Month/Day/Year)

04/26/2010

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

President and CEO

6. Individual or Joint/Group Filing(Check Applicable Line)

Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities 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. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount or Price		
Common Stock	04/26/2010		M		880 A \$ 20.02	D	
Common Stock	04/26/2010		M		466 A \$ 18.44	D	
Common Stock	04/26/2010		M		14,700 A \$ 16.88	D	
Common Stock	04/26/2010		M		482 A \$ 12.97	D	
Common Stock	04/26/2010		M		375 A \$ 17.6	D	

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Common Stock	04/26/2010	M	30,000	A	\$ 17.25	81,916	D
Common Stock	04/26/2010	S	45,800	D	\$ 23.5 <sup>(1)</sup>	36,116	D
Common Stock	04/27/2010	M	500	A	\$ 16.88	36,616	D
Common Stock	04/27/2010	M	200	A	\$ 17.6	36,816	D
Common Stock	04/27/2010	S	700	D	\$ 24	36,116	D

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

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(9-02)

**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. Transaction Code (Instr. 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 Underlying Securities (Instr. 3 and 4)	Amount or Number of Shares	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (Right to Buy)	\$ 20.02	04/26/2010		M	880	10/15/2002 <sup>(2)</sup>	10/15/2011	Common Stock	880
Stock Option (Right to Buy)	\$ 18.44	04/26/2010		M	466	06/24/2003 <sup>(3)</sup>	06/24/2012	Common Stock	466
Stock Option (Right to Buy)	\$ 16.88	04/26/2010		M	14,700	11/22/2003 <sup>(4)</sup>	11/22/2012	Common Stock	14,700
Stock Option (Right to Buy)	\$ 12.97	04/26/2010		M	482	02/07/2004 <sup>(3)</sup>	02/07/2013	Common Stock	482

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Stock Option (Right to Buy)	\$ 17.6	04/26/2010	M	375	07/01/2004 <sup>(3)</sup>	07/01/2013	Common Stock	375
Stock Option (Right to Buy)	\$ 17.25	04/26/2010	M	30,000	03/21/2002 <sup>(4)</sup>	03/21/2011	Common Stock	30,000
Stock Option (Right to Buy)	\$ 16.88	04/27/2010	M	500	11/22/2003 <sup>(4)</sup>	11/22/2012	Common Stock	500
Stock Option (Right to Buy)	\$ 17.6	04/27/2010	M	200	07/01/2004 <sup>(4)</sup>	07/01/2013	Common Stock	200

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
BERLINGHIERI LEO 2 TECH DRIVE ANDOVER, MA 01810	X		President and CEO	

## Signatures

/s/Renee M.  
Donlan POA

04/28/2010

\*\*Signature of Reporting Person

Date

## Explanation of Responses:

\* 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).

This transaction was executed in multiple trades at prices ranging from \$23.75 to 24.42. The price reported above reflects the weighted

- (1) 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) Vests as follows: 33 1/3 after the first year and each successive 12 month period thereafter.
- (3) Vests 100% one year after grant
- (4) 25% after first year, 6.25% each quarter thereafter - total 4 years.

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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