

BERLINGHIERI LEO  
Form 4  
February 10, 2011

**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

2. Issuer Name and Ticker or Trading Symbol  
MKS INSTRUMENTS INC [MKSI]

5. Relationship of Reporting Person(s) to Issuer  
(Check all applicable)

(Last) (First) (Middle)  
2 TECH DRIVE  
(Street)

3. Date of Earliest Transaction  
(Month/Day/Year)  
02/08/2011

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

ANDOVER, MA 01810

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

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

(City) (State) (Zip)

**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 Ownership (Instr. 4)
Common Stock	02/08/2011		M	V	\$ 24.5 113,749	D	
Common Stock	02/08/2011		S		\$ 30.27 103,349 (1)	D	
Common Stock	02/08/2011		S		\$ 30.14 5,013 (2)	D	
Common Stock	02/08/2011		M		\$ 23.5 31,013	D	
	02/08/2011		S		28,213	D	

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Common Stock					\$			
					30.27			
					<u>(3)</u>			
Common Stock	02/08/2011		S	23,200	D	\$	30.08	5,013
						<u>(4)</u>		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)
				Code	V (A) (D)	Date Exercisable Expiration Date	Title Amount Number Shares
Stock Option (Right to Buy)	\$ 24.5	02/08/2011		M	108,736	11/14/2001 <sup>(5)</sup> 11/14/2011	Common Stock 108,736
Stock Option (Right to Buy)	\$ 23.5	02/08/2011		M	26,000	01/30/2003 <sup>(6)</sup> 01/30/2012	Common Stock 26,000

## 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

02/10/2011

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).

(1) This transaction was executed in multiple trades at prices ranging from \$30.25 to \$30.33. 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 \$30.06 to \$30.35. 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.

(3) This transaction was executed in multiple trades at prices ranging from \$30.25 to \$30.34. 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.

(4) This transaction was executed in multiple trades at prices ranging from \$30.04 to \$30.11. 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.

(5) This option grant vests upon issue.

(6) 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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