

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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).

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* KAHL HANS JOCHEN			2. Issuer Name and Ticker or Trading Symbol MKS INSTRUMENTS INC [MKSI]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 02/22/2007			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person		
90 INDUSTRIAL WAY			4. If Amendment, Date of Original Filed (Month/Day/Year)					
(Street) WILMINGTON MA 01887								
(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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common	02/22/2007		M ⁽¹⁾		1,500	A	\$20.07	4,487	D	
Common	02/22/2007		M ⁽¹⁾		1,000	A	\$20.07	5,487	D	
Common	02/22/2007		M ⁽¹⁾		1,500	A	\$20.07	6,987	D	
Common	02/22/2007		M ⁽¹⁾		200	A	\$20.07	7,187	D	
Common	02/22/2007		M ⁽¹⁾		600	A	\$20.07	7,787	D	
Common	02/22/2007		M ⁽¹⁾		2,700	A	\$20.07	10,487	D	
Common	02/22/2007		M ⁽¹⁾		800	A	\$20.07	11,287	D	
Common	02/22/2007		M ⁽¹⁾		3,700	A	\$20.07	14,987	D	
Common	02/22/2007		S ⁽¹⁾		1,500	D	\$24.88	13,487	D	
Common	02/22/2007		S ⁽¹⁾		1,000	D	\$24.87	12,487	D	
Common	02/22/2007		S ⁽¹⁾		1,500	D	\$24.85	10,987	D	
Common	02/22/2007		S ⁽¹⁾		200	D	\$24.83	10,787	D	
Common	02/22/2007		S ⁽¹⁾		600	D	\$24.84	10,187	D	
Common	02/22/2007		S ⁽¹⁾		2,700	D	\$24.82	7,487	D	
Common	02/22/2007		S ⁽¹⁾		800	D	\$24.81	6,687	D	
Common	02/22/2007		S ⁽¹⁾		3,700	D	\$24.8	2,987	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. 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 Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Director Stock option (right to buy)	(2)	02/22/2007		M ⁽¹⁾			1,500	08/08/1988 ⁽³⁾	08/08/1988 ⁽⁴⁾	Common	1,500	\$0	13,319	D	
Director Stock option (right to buy)	(2)	02/22/2007		M ⁽¹⁾			1,000	08/08/1988 ⁽³⁾	08/08/1988 ⁽⁴⁾	Common	1,000	\$0	12,319	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. 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 Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Director Stock option (right to buy)	(2)	02/22/2007		M ⁽¹⁾			1,500	08/08/1988 ⁽³⁾	08/08/1988 ⁽⁴⁾	Common	1,500	\$0	10,819	D	
Director Stock option (right to buy)	(5)	02/22/2007		M ⁽¹⁾			200	08/08/1988 ⁽³⁾	08/08/1988 ⁽⁴⁾	Common	200	\$0	10,619	D	
Director Stock option (right to buy)	(2)	02/22/2007		M ⁽¹⁾			600	08/08/1988 ⁽³⁾	08/08/1988 ⁽⁴⁾	Common	600	\$0	10,019	D	
Director Stock option (right to buy)	(2)	02/22/2007		M ⁽¹⁾			2,700	08/08/1988 ⁽³⁾	08/08/1988 ⁽⁴⁾	Common	2,700	\$0	7,319	D	
Director Stock option (right to buy)	(5)	02/22/2007		M ⁽¹⁾			800	08/08/1988 ⁽³⁾	08/08/1988 ⁽⁴⁾	Common	800	\$0	6,519	D	
Director Stock option (right to buy)	(2)	02/22/2007		M ⁽¹⁾			3,700	08/08/1988 ⁽³⁾	08/08/1988 ⁽⁴⁾	Common	3,700	\$0	2,819	D	

Explanation of Responses:

- The transactions reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan previously adopted by the reporting person.
- Option conversion price is \$20.07 per share for option transactions reported on this filing.
- Stock Option Grants include multiple vest dates.
- Expires 10 years after date of grant
- Option conversion price is \$20.02 per share for option transactions reported on this filing.

By: Joseph M. Tocci / POA 02/26/2007

** 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.