FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washir

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

ngton, D.C. 20549	OMB APPROVAL

3235-0287 OMB Number: Estimated average burden hours per response: 0.5

5 Relationship of Reporting Person(s) to Issuer

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

4. Name and Address of Demanting Demant

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

2 Issuer Name and Ticker or Trading Symbol

		ALEXANDE	<u>R</u>		<u>M</u>	KS	INS'	TRUI	MI	ENTS	IN	<u>С</u> [мк	SI]		(CI	neck all appl Direct	cable) or	.5 . 0	10% Owner				
(Last) 2 TECH	,	-irst)	(Middle)			Date o		est Trar	ารลด	ction (M	onth/	Day/Year)		helow)	Officer (give title below) V.P. & Chief T		Other (s below) h Officer	pecify					
(Street) ANDOV (City)			01810 (Zip)		4. 11	f Ame	endme	nt, Date	of (of Original Filed (Month/D				ear)	6. Lin	e) X Form Form	Form filed by One Form filed by More Person		orting Perso	on			
(=-9)				n-Deriv	/ative	e Se	curit	ies Ac		uired,	Dis	posed o	of, o	r Bei	neficia	lly Owne							
			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		.	3. Transa Code (I 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				Benefic Owned	es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership				
									Code	v	Amount		(A) or (D)	Price	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)				
Common	ommon Stock			03/10	03/10/2010					M		1,157		A	\$0	1,	1,157		D				
Common	nmon Stock			03/10	03/10/2010					M		1,66	7	A	\$0	2	,824	D					
Common	Common Stock			03/10	03/10/2010					F ⁽¹⁾		898	3	D	\$19.	07 1	926 I		D				
Common	Stock	k 03/11/2			1/2010	0				S		1,920	6	D	\$19.	04	0		D				
		T										osed of converti				/ Owned							
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deem Execution if any (Month/Da	ed Date,	4. Transaction Code (Instr. 8)		n of		6. Ex		ercis Date	able and	7. T Ame Sec Und Deri	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A)	(D)		ate kercisabl		Expiration Date	Title		Amount or Number of Shares								
Restricted Stock Unit	(2)	03/10/2010			M			1,157		(3)		(3)		nmon ock	1,157	\$0	13,057	7	D				
Restricted	(2)	03/10/2010			M			1,667		(4)		(4)	Con	nmon	1.667	\$0	10,167	,	D				

Explanation of Responses:

- 1. This transaction was effected pursuant to a Rule 10b5-1 trading plan previously adopted by the reporting person to satisfy tax withholding obligations.
- 2. Each restricted stock unit represents the contingent right to receive one share of common stock of MKS Instruments, Inc.
- 3. These RSUs are subject to the achievement of performance criteria determined in the first year of the grant and thereafter vests in equal annual installments over three years.
- 4. The RSUs vest in equal annual installments over three years.

03/12/2010 /s/Renee M. Donlan POA

** Signature of Reporting Person

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.