FORM	4
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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).	

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

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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 F PATEL KIRAN M	2. Issuer Name an KLA TENCOR			0.	ool	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) 				
(Last) (First) C/O KLA-TENCOR CORPO TECHNOLOGY DRIVE	3. Date of Earliest Transaction (Month/Day/Year) 11/02/2016						Officer (give title below)	Other (specify b	5elow)	
(Street) MILPITAS, CA 95035	4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City) (State)	(Zip)	Tat	ole I - Non-	Deri	vative Se	curities	Acqu	ired, 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)	Code (Instr. 8)		1		of	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	Ownership Form: E Direct (D) 0	Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price		or Indirect (I) (Instr. 4)	(Instr. 4)
Common Stock - Restricted Stock Units (1)	11/02/2016		А		2,141 (2)	А	\$ 0	4,535	D	
Common Stock								1,969	D	
Common Stock								14,348	Ι	By Trust (3)

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

SEC 1474 (9-02)

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 control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(e.g., puts, calls, warrants, options, convertible securities)														
1. Title of	2.	3. Transaction	3A. Deemed	4.	5	5.		6. Date Exer	cisable	7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transactio	n N	Numb	er	and Expirati	on Date	Amo	unt of	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code	0	of		(Month/Day	/Year)	Unde	rlying	Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Ľ	Deriva	ative			Secur	rities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative				S	Securi	ities			(Instr	. 3 and		Owned	Security:	(Instr. 4)
	Security				A	Acqui	red			4)			Following	Direct (D)	
					(4	A) or	•						Reported	or Indirect	
					Γ	Dispo	sed						Transaction(s)	(I)	
						of (D)							(Instr. 4)	(Instr. 4)	
						Instr.									
					4	l, and	5)								
											Amount				
								Dete	E		or				
								Date Exercisable	Expiration	Title	Number				
								Exercisable	Date		of				
				Code V	V ((A)	(D)				Shares				

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
PATEL KIRAN M C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	Х						

Signatures

Teri A. Little as Attorney-in-Fact for Kiran M. Patel

11/03/2016

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) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- Represents a grant of RSUs that, pursuant to KLA-Tencor's outside director compensation program, was automatically granted to the Reporting Person on the date of KLA-(2) Tencor's annual meeting of stockholders with respect to the Reporting Person's service on the Board of Directors for the upcoming year. The RSUs will fully vest one year from date of grant and will be deliverable on such date.
- (3) By The Kiran and Jocimara Patel Trust dated October 23, 2008, of which the Reporting Person is a trustee and beneficiary.

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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