## FORM 4

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

OMB APPROVAL						
OMB Number:	3235-0287					
Estimated average	burden					
nours per response	e 0.5					

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 or Section 30(h) of the Investment Company Act of 1940

(Fillit of Ty	pe Kesponse	8)															_		
1. Name and Address of Reporting Person * PATEL KIRAN M				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director 10% Owner							
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 11/03/2011							-	Office	r (give title belo	ow)	Other (specify	pelow)			
(Street)				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							
MILPITAS, CA 95035																			
(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			Execution Date, if Code		le	4. Securities Acquir (A) or Disposed of (D) (Instr. 3, 4 and 5)			dof	5. Amount of Se Beneficially Own Reported Transa (Instr. 3 and 4)		lly Owned F Transaction	ollowing	Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
						ode	V	Amoui	(A) or (D)	r Pric	ce				(I) (Instr. 4)	(			
Common Stock Un	Stock - R	estricted	11/03/2011				A		2,539 (2)	A	\$ 0	2	,539	539		D			
Common	Stock											7	7,395			D			
Reminder:	Report on a s	contained in this form a																	
1. Title of	2	3. Transaction		4.	ans, wa	arran 5.							e and	& Price of	9. Number	of 10.	11. Natur		
Derivative Security	Conversion or Exercise Price of Derivative Security		Execution Dat	e, if Transa Code	8)		eative ratives ired rosed ) . 3,	and Expiration Date (Month/Day/Year)  Art Ur Se		Expiration Date Am Und Sec (Inst		n Date Ame Year) Und Sect (Ins		mournderlecuri	nt of lying ties 3 and		Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Owners Form of Derivat Security Direct ( or Indir	of Indirect Beneficial Ownershi (Instr. 4)
				Code	. V	(A)		Date Exerc	cisable	Expiration Date	on Ti	itle 1	Amount or Number of Shares						

### **Reporting Owners**

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

### **Signatures**

Brian M. Martin as Attorney-in-Fact for Kiran M. Pa	el	11/04/2011		
**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) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (2) The restricted stock units will fully vest one year from date of grant and will be deliverable on such date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.