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

(Print or Ty	pe Response	s)														
1. Name and Address of Reporting Person * CALDERONI ROBERT				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) 11/15/2007						Office	er (give title belo	ow)	Other (specify b	elow)		
(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 PersonForm 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)		f Coo	(Instr. 8)		(A) or Disposed of (Instr. 3, 4 and 5)		of (D)	Beneficia	nt of Securities ally Owned Following Transaction(s) and 4)		Form:	7. Nature of Indirect Beneficial Ownership		
						C	Code	V	Amoun	(A) or (D)	Price				or Indirect (I) (Instr. 4)	(Instr. 4)
Common Stock Un	Stock - R	estricted	11/15/2007				A	2	2,036	A	\$ 0 (2)	2,971			D	
	report on a c	reparate line to	r each class of secur	Derivative S	Securi	ties Ac	equire	Person contain the for ed, Disp	ns wh ned ir rm dis	o respo this fo plays a	rm are curre reficia	e not requently valid	OMB con	formation spond unle trol numbe	ss	1474 (9-02)
1. Title of	12	3. Transaction	,	e.g., puts, c	alls, w	arran 5.	ts, op					itle and	& Price of	9. Number	of 10.	11. Nature
	Conversion or Exercise Price of Derivative Security	Date	Execution Day (Year) any	te, if Transaction Code Year) (Instr. 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)		Am Und Sec	ount of derlying urities tr. 3 and		Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form of Derivativ Security: Direct (I or Indire	of Indirect Beneficial Ownershij (Instr. 4)	
				Code	e V	(A)	(D)	Date Exercis		Expiratio Date	n Titl	Amount or e Number of Shares				

Reporting Owners

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

Signatures

Brian M. Martin as Attorney-in-Fact for Robert M. Calderoni	11/19/2007
**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 represents a contingent right to receive one share of KLAC 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.