FORM 4

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

OMB APPROVAL						
OMB Number:	3235-0	287				
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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).

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 * Wang David C				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) 11/04/2009								Office	r (give title belo	w) (Other (specify b	elow)
(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					
(City	AS, CA 95	(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		if Co	Transac	4. Securities Acquired (A) or Disposed of			uired of	, , , ,			6. 7. Ownership Form: B	7. Nature of Indirect Beneficial Ownership		
					(Code		V Amount (A) or (D) Prio		Price	e			or Indirect (I) (Instr. 4)	(Instr. 4)	
Common Stock Un	Stock - R	estricted	11/04/2009				A		3,148 (<u>2</u>)	A	\$ 0	9,912			D	
Common	Stock											2,036			D	
	-		Table II - I				cquire	conta the fo	nined ir orm dis sposed o	this for plays a o	m are currei eficial	not requesting ntly valid		ormation spond unlestrol number	ss	1474 (9-02)
1 7711 6	I _a	0 m .:		e.g., puts,	calls, v		ts, opt					1	0 D : C	0.37 1	6 10	11.37.
Security		onversion r Exercise rice of berivative on the properties of the control of the c		Amo Und Secu	itle and ount of erlying irities tr. 3 and	Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownersh Form of Derivati Security Direct (I or Indire	Ownersh (Instr. 4)							
				Coo	de V	(A)	(D)	Date Exerc		Expiratior Date	Title	Amount or Number of Shares				

Reporting Owners

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

Signatures

Brian M. Martin as Attorney-in-Fact for David C. Wang	11/05/2009
**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 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.