FORM 4

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

OMB APPRO\	/AL
OMB Number:	3235-0287
Estimated average but	rden
hours per response	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 Typ	e Responses)																
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, 160 RIO ROBLES					3. Date of Earliest Transaction (Month/Day/Year) 03/29/2007									Officer (give	e title below)	Othe	er (specify belo	w)
(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 PersonForm filed by More than One Reporting Person					
SAN JOSE, CA 95130 (City) (State) (Zip)				Table I - Non-Derivative Securities Acqui								ired, Disposed of, or Beneficially Owned						
1.Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea				2A. Deemed Execution Date any (Month/Day/Ye		Date, if	Cod (Ins	de (4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)							6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership
				(WOILLI	Day	/ I car)		ode	V	Amount	(A) or (D)	Price				or Indirect (I) (Instr. 4)	(Instr. 4)	
Common Units (1)	Stock-Res	tricted Stock	03/29/2007					A	ç	35	A	\$ 0 (2)	1,431			1	D	
		nversion Date Exercise (Month/Day/Year) Execution Date, if Transaction Number of (Month/Day/Year) Expiration Date (Month/Day/Year) Expiration Date (Month/Day/Year) Securities		ficially Owned ities) 7. Title and Amount of Underlying Securities 8. Price of Derivative Security			8. Price of Derivative	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction ((Instr. 4)	Ownersh Form of Derivati Security Direct (I or Indire	Ownershi (Instr. 4)								
				Code	V		(D)	Date Exerci	sable	Expir Date	ation	Title		Amount or Number of Shares				
Non- Qualified Stock Option (right to buy)	\$ 50.39							02/14	l/2007	7 02/1	4/2014	Comr		2,500		2,500	D	

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
Wang David C C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X						

Signatures

By: John Kispert For: David C. Wang	03/30/2007
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 not be deliverable until three years from the date of grant.

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.