## FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
Estimated average burden
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 * KAUFMAN STEPHEN P					2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]									lationship Director		g Person(s) to all applicable			
C/O KLA ROBLES		(First)	NI 1 CO DIO	3. Date of 10/18/2			ansac	ction (N	Month/D	ay/Year	·)			Officer (give	title below)		er (specify belo	ow)	
(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						
SAN JOS	E, CA 951	30														Reporting Person			
(City	)	(State)	(Zip)			1	able	I - No	n-Deriv	vative S	ecurities	s Acqu	ired, I	Disposed (	of, or Benef	icially Own	ed		
(Instr. 3) Date			2. Transaction Date (Month/Day/Year	2A. Deemed Execution Date, if any (Month/Day/Year)			(Instr. 8)		(1	A. Securities Acqu A) or Disposed of Instr. 3, 4 and 5)  (A) or Amount (D)		of (D)	Owned Follow Transaction(s) (Instr. 3 and 4)				6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Benef Owner	lirect ficial ership
Common	Stock												1,00	0			D		
Reminder: F	Report on a se	eparate line for each	class of securities b	· Derivat	ive S	Securitio	es Ac	P ir d	Persons In this foliage Isplays	orm ars a cur	e not re rently v	quire alid C	d to re	espond i ontrol ni	unless the	on contain form	ed SEC	1474 (	(9-02)
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Transaction of Code Deri (Instr. 8) Sect Acq (A) Disp of (I (Instr. 8) Code Code Code Code Code Code Code Code		of Derivate Security Acquire (A) or Dispose of (D) (Instr. 2 and 5)	Expiration (Month/I month/I mo		ation Da			7. Title and of Underlyin Securities (Instr. 3 and		ng		9. Number of Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form of Derivati Security Direct ( or Indire	ive (Instr. 4) D) ect	
				Code	V	(A)	(D)	Date Exerc	isable	Expira Date	ation	Title		Amount or Number of Shares					
Non- Qualified Stock Option (right to buy)	\$ 40.68	10/18/2004		A		2,500		10/13	8/2004	10/1	8/2014		mon ock	2,500	\$ 0	2,500	D		
Non- Qualified Stock Option (right to buy)	\$ 37.05							11/0	8/2002	2 11/0	8/2012		mon ock	10,000		10,000	D		
Non- Qualified Stock Option (right to buy)	\$ 59.44							11/0	5/2003	3 11/0	5/2013		mon ock	10,000		10,000	D		

# **Reporting Owners**

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		

KAUFMAN STEPHEN P C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X		
Signatures			

By: Stuart J. Nichols For: Stephen P. Kaufman	10/18/2004
**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).

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.