FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

buy)
NonQualified
Stock

Option

(right to buy)

\$ 29.31

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

Instruc	ction 1(b).			In	ives	tment (Comp	pa	ıny Act o	f 19	940								
(Print or Typ	e Responses)																	
1. Name and Address of Reporting Person* KISPERT JOHN H				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner								
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, 160 RIO ROBLES				3. Date of Earliest Transaction (Month/Day/Year) 01/27/2004							X Officer (give title below) Other (specify below) Chief Financial Officer								
KOBLES	<u>'</u>	(Street)		4. If Am	endı	ment, Dat	e Ori	gir	nal Filed(M	onth/	Day/Year)		6. Ind	ividual or	Joint/Group	Filing(Check A	Applicable Lir	ne)	
SAN JOSE, CA 95130				4. If Amendment, Date Original Filed(Month/Day/Year)							X_Form filed by One Reporting PersonForm filed by More than One Reporting Person								
(City		(State)	(Zip)			7	Fabla	. Т.	- Non-Dor	ivet	ive Securities	s A car	uired F	Nienosod o	of or Ranafi	icially Owne	d		
1.Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea			2A. Deemed Execution Date, if		ed Date, if	3. Transaction 4 Code (Instr. 8)		1. Se (A) e	ecurities Acquor Disposed o (r. 3, 4 and 5)	f (D) 5. Amo Owned Transa		Amount of Securities Beneficially wheel Following Reported ansaction(s) str. 3 and 4)		neficially	6. Ownership Form: Direct (D)	of I Ben	7. Nature of Indirect Beneficial Ownership		
							C		e V	Amo	(A) or (D)	Price				(or Indirect (I) (Instr. 4)		
Common	Stock												6,277	7			D		
				(e.g., pt		calls, war	rrant	s, (a curre ired, Dispo options, co	ntly osed nve	n are not re / valid OMB l of, or Benefi ertible securit	cont icially ties)	Owner	mber.		·			
1. Title of Derivative Security (Instr. 3)	erivative Conversion Date Executivy or Exercise (Month/Day/Year) any		3A. Deemed Execution Date, if any (Month/Day/Year)	f Transaction Code (Instr. 8)		5. Numb of Deriv Securitic Acquire or Dispo of (D) (Instr. 3 and 5)	vative es ed (A) osed	Expiration Date (Month/Day/Year) sed		e of ear) Se		Title and Amount f Underlying ecurities nstr. 3 and 4)			9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s	Ownersh Form of Derivativ Security: Direct (D or Indirect	ship f cive y: (D)	(Instr. 4)	
				Code	V	(A)	(D)	Е	Date Exercisable		Expiration Date	Title	;	Amount or Number of Shares		(Instr. 4)		+)	
Non- Qualified Stock Option (right to buy)	\$ 58.10	01/27/2004		A		15,000)	1	10/27/200	04 (01/27/2014		nmon tock	15,000	\$ 0	15,000	D		
Non- Qualified Stock Option (right to buy)	\$ 10.63							0	08/31/199	99 (08/31/2008		nmon tock	5,000		5,000	D		
Non- Qualified Stock Option (right to	\$ 26.25							1	1/10/200	01	11/10/2010	1	nmon tock	9,000		9,000	D		

Common

Stock

38,000

38,000

D

10/02/2002 10/02/2011

Non- Qualified Stock Option (right to buy)	\$ 32.75			04/04/2002	04/04/2011	Common Stock	10,667	10,667	D	
Non- Qualified Stock Option (right to buy)	\$ 33.75			10/27/2000	10/27/2009	Common Stock	1,875	1,875	D	
Non- Qualified Stock Option (right to buy)	\$ 34.67			11/08/2003	01/28/2013	Common Stock	25,000	25,000	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05			11/08/2003	11/08/2012	Common Stock	12,500	12,500	D	
Non- Qualified Stock Option (right to buy)	\$ 44.6875			08/13/2001	08/13/2010	Common Stock	8,658	8,658	D	
Non- Qualified Stock Option (right to buy)	\$ 51.229			11/08/2003	07/30/2013	Common Stock	12,500	12,500	D	
Non- Qualified Stock Option (right to buy)	\$ 53.86			10/27/2004	10/27/2013	Common Stock	30,000	30,000	D	

Reporting Owners

	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
KISPERT JOHN H C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130			Chief Financial Officer						

Signatures

By: Stuart J. Nichols For: John H. Kispert	01/28/2004
**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.