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

(right to buy) Non-Qualified 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

-	tion 1(b).			In	ives	tment C	Comp	oany A	ct of	1940									
	ne 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							
C/O KLA ROBLES	-TENCOR	(First) R CORPORATIO		3. Date of 04/26/2		arliest Tra 4	nsact	ion (Mo	onth/Day	y/Year)	1		X_(Officer (give		Othe	r (specify belo cer	v)	
SAN IOS	SE, CA 951	(Street)		4. If Am	endr	nent, Date	e Orig	ginal Fi	led(Mont	h/Day/Ye	ear)		_X_ For	m filed by O	ne Reporting P	Filing(Check A	Applicable Line	·)	
(City		(State)	(Zip)			т	`ahle	I - Non	-Derivs	ative Se	ecurities	Acqui	red D	isnosed o	of or Renef	icially Owne	d		
1.Title of So (Instr. 3)	ecurity		2. Transaction Date (Month/Day/Year	r) any	tion	ed Date, if	3. Tra	ansactio	on 4. S	Securiti) or Dis	ies Acqu sposed of and 5)	ired f (D)	5. Am Owned	ount of Se	ecurities Berng Reported	neficially	6. Ownership Form:	Beneficial Ownership	
							Сс	ode	V An	nount	(A) or (D)	Price					(I) (Instr. 4)		
Common	Stock												6,412	2]	D		
			Table II					in a c quired,	this fo current Dispose	rm are	not red d OMB r Benefi	quired contro	to re ol nur	spond u nber.		on containe form displa		1474 (9-02)	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security			f Transaction of Deri Code Securit (Instr. 8) Acquir or Disp of (D)		5. Numb of Derive Securities Acquired or Dispo of (D) (Instr. 3,	mber 6. Date Expiration (Month/D posed 3, 4,		Exerci	tercisable and Date		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s)	Owners Form of Derivati Security Direct (I or Indirects)	nip of Indirect Beneficia Ownershi (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exerci	sable	Expira Date	ation	Title		Amount or Number of Shares		(Instr. 4)	(Instr. 4)	
Non- Qualified Stock Option (right to buy)	\$ 45.16	04/26/2004		A		18,750		10/27	//2004	04/26	6/2014	Com	_	18,750	\$ 0	18,750	D		
Non- Qualified Stock Option (right to buy)	\$ 10.63							08/31	/1999	08/3	1/2008	Com: Sto		5,000		5,000	D		
Non- Qualified Stock Option	\$ 26.25							11/10)/2001	11/10	0/2010	Com		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	
Non- Qualified Stock Option (right to buy)	\$ 58.10			10/27/2004	01/27/2014	Common Stock	15,000	15,000	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	04/27/2004
**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.