FORM 4

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

OMB APPROVAL
OMB Number: 3235-0287
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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

•	tion 1(b).			In	ives	stment (Comp	pany A	ct of 1	1940								
(Print or Type Responses) 1. Name and Address of Reporting Person * KISPERT JOHN H				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							5	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
(Last) (First) (Middle)				3. Date of Earliest Transaction (Month/Day/Year) 08/02/2004								Director 10% Owner X Officer (give title below) Other (specify below) Chief Financial Officer						
(Street) SAN JOSE, CA 95130				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					Ī	
(City	7)	(State)	(Zip)			7	Γable	I - Non-	-Deriva	ntive Securities	s Acquir	ed, D	Disposed o	of, or Benef	icially Owne	d		1
1.Title of Se (Instr. 3)				2A. Deemed Execution Date, if any (Month/Day/Year		Date, if	(Instr. 8)		(A)	Securities Acqu) or Disposed o str. 3, 4 and 5)	of (D)					6. Ownership Form: Direct (D) or Indirect	Beneficial Ownership	of Indirect Beneficial Ownership
							С	ode	V An	nount (A) or (D)	Price					(I) (Instr. 4)		
Common	Stock										7	,008	3			D		
				(e.g., pt				in t a c quired, l s, option	this for urrent Dispose is, conv	who respond rm are not re ly valid OMB ed of, or Benef vertible securit	quired contro icially C	to re I nur	spond u nber.		form displa	ys	1474 (9-02)
Derivative Conversion Date		3. Transaction Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Year)		f Transaction of De Code Secur (Instr. 8) Acqu or Diof (D (Instr. 8)		Securitie	erivative rities (Month/E) sposed (Month/E) (M		ion Dat			7. Title and Amount of Underlying Securities (Instr. 3 and 4)		Derivative E Security S (Instr. 5) E C F R	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s)	Owners Form o Derivat Securit Direct (or India	ship of Indi Benefi ive Owner (y: (D) ect	Beneficia Ownershi (Instr. 4)
				Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title		Amount or Number of Shares		(Instr. 4)	(Instr. 4	1)	
Non- Qualified Stock Option (right to buy)	\$ 40.66	08/02/2004		A		11,250 (1))	10/27	/2004	08/02/2014	Comr		11,250	\$ 0	11,250	D		
Non- Qualified Stock Option (right to buy)	\$ 10.63							08/31/	/1999	08/31/2008	Comr		5,000		5,000	D		
Non- Qualified Stock Option (right to	\$ 26.25							11/10	/2001	11/10/2010	Comr		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)	\$ 45.16				10/27/2004	04/26/2014	Common Stock	18,750	18,750	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 Kispert	08/09/2004
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**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) Form filings are completed by the Company on behalf of the officer listed. Due to an administrative error, this grant of options is being reported late.

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.