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

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subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b). Form 3 Holdings Reported

Form 4 Transactions

Reported

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES hours per response...

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of R DICKERSON GARY		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) C/O KLA-TENCOR,	(First) 160 RIO ROB		3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 06/30/2003				X_ Officer (give title below) Other (specify below) Chief Operating Officer				
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)					6. Individual or Joint/Group Reporting (check applicable line)			
SAN JOSE, CA 9513	4							_X_Form Filed by One Reporting Person Form Filed by More than One Reporting Person			
(City)	(State)	(Zip)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	Execution Date, if	(Instr. 8)	(A) or Disposed of (D)		f(D)	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	Ownership Form:	Beneficial Ownership	
Common Stock								5,949 (1)	D		

owned directly or indirectly.

Reminder: Report on a separate line for each class of securities beneficially Persons who respond to the collection of information contained in this form are SEC 2270 (9-02) not required to respond unless the form displays a currently valid OMB control number.

> Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code	5. Num of Deriv Secur Acqu (A) o Dispo of (D (Instr 4, and	vative rities ired rosed) : 3,	6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned at End of Issuer's		11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option	\$ 10.63						08/31/1999	08/31/2008	Common Stock	15,721		15,721	D	
Non- Qualified Stock Option	\$ 16.97						10/23/1999	10/23/2008	Common Stock	46,644		46,644	D	
Non- Qualified Stock Option	\$ 26.25						11/10/2001	11/10/2010	Common Stock	32,500		32,500	D	
Non- Qualified Stock Option	\$ 29.31						10/02/2002	10/02/2011	Common Stock	105,000		105,000	D	
Non- Qualified Stock Option	\$ 32.75						04/04/2002	04/04/2011	Common Stock	32,500		32,500	D	
Non- Qualified Stock Option	\$ 33.75						10/27/2000	10/27/2009	Common Stock	100,000		100,000	D	

Non- Qualified Stock Option	\$ 34.67			11/08/2003	01/28/2013	Common Stock	50,000	50,000	D	
Non- Qualified Stock Option	\$ 37.05			11/08/2003	11/08/2012	Common Stock	25,000	25,000	D	
Non- Qualified Stock Option	\$ 40.14			05/22/2004	05/22/2013	Common Stock	1,000	1,000	D	
Non- Qualified Stock Option	\$ 44.6875			08/13/2000	08/13/2010	Common Stock	23,415	23,415	D	
Non- Qualified Stock Option	\$ 44.6875			08/13/2001	08/13/2010	Common Stock	41,585	41,585	D	

Reporting Owners

	Banarting Owner Name /	Relationships								
	Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
(DICKERSON GARY E C/O KLA-TENCOR 160 RIO ROBLES SAN JOSE, CA 95134			Chief Operating Officer						

Signatures

Gary E. Dickerson	08/07/2003
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) Securities adjusted for Non-Reportable Transaction (669 ESPP Shares)

Remarks:

Form 5 filed to voluntarily report all holdings

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.