## 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 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	pe Responses	)															
1. Name and Address of Reporting Person* TOMPKINS JON D				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director 10% Owner				
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, 160 RIO ROBLES				3. Date of Earliest Transaction (Month/Day/Year) 02/27/2004								Officer (give	e title below)		her (specify bel	ow)	
(Street)				4. If Amendment, Date Original Filed(Month/Day/Year)								Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person					
SAN JOSE, CA 95130																	
(City	7)	(State)	(Zip)			,	Table	e I - No	n-Deriv	ative S	ecurities	s Acqu	ired, Disposed	of, or Bene	ficially Owr	ied	
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	Execution			Cod (Ins	3. Transaction Code (Instr. 8)		A) or Disposed o nstr. 3, 4 and 5)		of (D)	Transaction(s) Fo (Instr. 3 and 4) Di or (I)		Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Common	Stock		02/27/2004					S		,819	(D)	Price \$ 53	0			(Instr. 4) by	
Common	Stock												11,700	11,700		D	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year) an	3A. Deemed Execution Date, if	(e.g., puts, calls, war 4. 5. f Transaction Code of Deriva (Instr. 8) Deriva Securit Acquir (A) or Dispos of (D) (Instr. 1)		per ative ities ired	displays a currently acquired, Disposed of, or Benonts, options, convertible secur  6. Date Exercisable and Expiration Date (Month/Day/Year)			rently v or Benef le securi	ficially Owned		8. Price of Derivative Security (Instr. 5)	9. Number of	Owners Form o Derivat Securit	Ownersh y: (Instr. 4)	
					(	of (D) (Instr	sed ) . 3,								Reported Transaction	Direct (or India) (I) (Instr. 4	
				Code	( 2	of (D)	sed ) . 3,	Date Exerci	isable	Expira Date	ation	Title	Amount or Number of Shares		Reported Transaction	or India (I)	
Non- Qualified Stock Option (right to buy)	\$ 37.05			Code	( 2	of (D) (Instr. 4, and	osed ) . 3, 15)	Exerci		Date	ation 8/2012	Title Com:	or Number of Shares		Reported Transaction	or India (I) (Instr. 4	

### **Reporting Owners**

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
TOMPKINS JON D C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X					

# **Signatures**

By: Stuart J. Nichols For: Jon D. Tompkins	02/27/2004		
**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).
- (1) Tompkins Charitable Remainder Trust

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.