FORM 4	4
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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).

/D

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

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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

1. Name and Address of Reporting Perso ELKUS RICHARD J JR	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) C/O KLA-TENCOR CORPORA ROBLES	3. Date of Earliest Transaction (Month/Day/Year) 03/10/2005						Officer (give title below) Officer (give title below)	her (specify belo	ow)	
(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 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 2. Transaction (Instr. 3) Date (Month/Day/Yea)		Execution Date, if	Code (A) or 1		(A) or D	A. Securities Acquired A) or Disposed of (D) Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	Form:	7. Nature of Indirect Beneficial
		(Month/Day/ Fear)	Code	v	Amount	(A) or (D)	Price	(insu. 5 and 4)	or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock	03/10/2005		S		5,000	D	\$ 48.08	70,000	D	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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		3A. Deemed Execution Date, if any (Month/Day/Year)	Code		of	vative rities nired or osed 0) c. 3,	Expiration Date (Month/Day/Year)		biration Date of Underlyir		Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following	Ownership Form of Derivative Security: Direct (D) or Indirect	Beneficial
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option (right to buy)	\$ 40.68							10/18/2004	10/18/2014	Common Stock	2,500		2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 44.76							01/25/2005	01/25/2015	Common Stock	2,500		2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 59.44							11/05/2003	11/05/2013	Common Stock	10,000		10,000	D	

Reporting Owners

Relationships

	Director	10% Owner	Officer	Other	
ELKUS RICHARD J JR C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	Х				

Signatures

By: Stuart J. Nichols For: Richard Elkus, Jr.	03/10/2005
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.

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