KLA TENCOR CORP

1. Name and Address of Reporting Person *

Reminder: Report on a separate line for each class of

securities beneficially owned directly or indirectly.

Form 5

August 03, 2005

OMB APPROVAL FORM 5 **OMB** UNITED STATES SECURITIES AND EXCHANGE COMMISSION 3235-0362 Number: Washington, D.C. 20549 Check this box if January 31, Expires: no longer subject 2005 to Section 16. Estimated average ANNUAL STATEMENT OF CHANGES IN BENEFICIAL Form 4 or Form burden hours per 5 obligations OWNERSHIP OF SECURITIES response... 1.0 may continue. See Instruction

1(b). Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
Reported
Form 4 30(h) of the Investment Company Act of 1940
Transactions
Reported

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to

ELKUS RIO	CHARD J JR	Symbol KLA T	Symbol KLA TENCOR CORP [klac]				Issuer			
(Last)	(First) (N	3. Statem (Month/I 06/30/2	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 06/30/2005				(Check all applicable) _X_ Director 10% Owner Officer (give title below) Other (specibelow)			
RIO ROBL										
(Street) 4. If Amendment, Dat Filed(Month/Day/Year)				Original			6. Individual or Joint/Group Reporting			
							(check applicable line)			
SAN JOSE,	CA 95134					_X_ Form Filed by One Reporting Person Form Filed by More than One Reporting Person				
(City)	(State)	(Zip) Tabl	le I - Non-Deri	ivative Sec	curitie	s Acqu	ired, Disposed o	of, or Beneficia	lly Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securi Acquired Disposed (Instr. 3,	d (A) od of (D) 4 and (A) or))	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common Stock	Â	Â	Â	Â	Â	Â	65,000	D	Â	

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

Persons who respond to the collection of information

contained in this form are not required to respond unless

the form displays a currently valid OMB control number.

SEC 2270

(9-02)

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I S	. Title of Derivative Security Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Numb of Deriving Securing Acquiring (A) or Dispo of (D) (Instr. 4, and	ative ities ired rosed)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amoun Underlying Securit (Instr. 3 and 4)	
						(A)	(D)	Date Exercisable	Expiration Date	Title	Amo or Numl of Sh
	Non-Qualified Stock Option	\$ 40.24	Â	Â	Â	Â	Â	05/11/2005	05/11/2015	Common Stock	2,5
	Non-Qualified Stock Option	\$ 40.68	Â	Â	Â	Â	Â	10/18/2004	10/18/2014	Common Stock	2,5
	Non-Qualified Stock Option	\$ 44.76	Â	Â	Â	Â	Â	01/25/2005	01/25/2015	Common Stock	2,5
	Non-Qualfied Stock Option	\$ 59.44	Â	Â	Â	Â	Â	11/05/2003	11/05/2013	Common Stock	10,0

Reporting Owners

Reporting Owner Name / Address	Relationships						
· · · · · · · · · · · · · · · · · · ·	Director	10% Owner	Officer	Othe			
ELKUS RICHARD J JR							
C/O KLA-TENCOR CORP.	ÂΧ	Â	â	â			
160 RIO ROBLES	АЛ	A	A	A			
SAN JOSE, CA 95134							

Signatures

Richard J. Elkus,
Jr.

**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 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.

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