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

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden 0.5 hours per response...

\$ 49.34

100

D

2,400

Stock

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

\$ 40.24

Option

(right to buy)

 $08/09/2005_{\columnwdell}^{\columnwdell}$ 

## 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 Type Responses)  1. Name and Address of Reporting Person * 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)							
(Last) (First) (Middle)				3. Date of Earliest Transaction (Month/Day/Year)							Director fficer (give t	title below)		Owner er (specify belo	ow)		
C/O KLA ROBLES		R CORPORATIO	ON, 160 RIO	08/09/	2005				•								
(Street)				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						
SAN JOSE, CA 95130											Form filed by More than One Reporting Person						
(City	<i>'</i> )	(State)	(Zip)	Table I - Non-Derivative Securities Acqu						ired, D	isposed o	of, or Benefi	icially Owne	d			
1.Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Yea			2A. Deemed Execution Date, if any (Month/Day/Year)		, if Co (In	(Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)							Form:	7. Nature of Indirect Beneficial Ownership	
				(months Duy 1 car)			Code	V	Amount (A) or (D) Pri		Price	(msu. 5 and 4)				or Indirect (I) (Instr. 4)	
Common	Stock		08/09/2005(1)				M		2,500	A	\$ 40.68	67,50	00			D	
Common Stock 08/09/20			08/09/2005(1)				S		2,500	D	\$ 49.36	65,00	00			D	
Common Stock 08/09/2			08/09/2005(1)				M		2,500	A	\$ 44.76	67,50	00			D	
Common Stock 08/09/2			08/09/2005(1)				S		2,500	D	\$ 49.36	65,00	00			D	
Common Stock 08/09/2			08/09/2005(1)				M		2,400	A	\$ 40.24	67,40	00			D	
Common Stock 08/0		08/09/2005(1)				S		2,400	D	\$ 49.34	65,00	00			D		
Common Stock 08/09/2005 <sup>4</sup>			08/09/2005(1)				M		100	A	\$ 40.24	65,10	00			D	
Common Stock 08/09/2005		08/09/2005(1)				S		100	D	\$ 49.36	65,00	00			D		
Reminder: F	Report on a so	eparate line for each						Perso in this a curr	ns who form a ently va	re not re alid OME	equired 3 contr	d to res	spond ui nber.		on containe Form displa		1474 (9-02)
			Table II		uts, calls							Owned					
	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution Date, if any (Month/Day/Year)	Code	etion of Der Sec Acc (A) Dis of (	ivative urities uired or posed D) tr. 3, 4,	Expiration Date of U (Month/Day/Year)		(Instr. 5) Beneficia Owned Followin Reported		Derivative Securities Beneficially Owned Following Reported Transaction	Owners Form o Derivat Securit Direct ( or India	Ownersky: (Instr. 4) (D) rect				
				Code	V (A)	(D)	Date Exerci	isable	Expira	ation Dat	e Title		Amount or Number of Shares				
Non- Qualified Stock	0.40.24	20 (20 (200 7(1))				2 400	05/11	1 /200	5 050	11/2015	. Con	nmon	2 400	A 40 24	100		

2,400 05/11/2005

M

05/11/2015

Non- Qualified Stock Option (right to buy)	\$ 40.24	08/09/2005(1)	М	100	05/11/2005	05/11/2015	Common Stock	100	\$ 49.36	0	D	
Non- Qualified Stock Option (right to buy)	\$ 40.68	08/09/2005 <sup>(1)</sup>	M	2,500	10/18/2004	10/18/2014	Common Stock	2,500	\$ 49.36	0	D	
Non- Qualified Stock Option (right to buy)	\$ 44.76	08/09/2005(1)	M	2,500	01/25/2005	01/25/2015	Common Stock	2,500	\$ 49.36	0	D	
Non- Qualified Stock Option (right to buy)	\$ 51.35				08/02/2005	08/02/2012 <sup>(2)</sup>	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						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
ELKUS RICHARD J JR C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X						

# **Signatures**

By: Stuart Nichols For: Richard J. Elkus, Jr.	09/06/2005
**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).
- (1) Due to an administrative error the transactions have been reported late.
- (2) Option expiration date was reported incorrectly on the original Form 4.

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.