

Glasser Lance A
Form 4
August 22, 2005

FORM 4

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

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,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

OMB APPROVAL

OMB
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(Print or Type Responses)

1. Name and Address of Reporting Person *
Glasser Lance A

(Last) (First) (Middle)

C/O KLA-TENCOR
CORPORATION, 160 RIO
ROBLES

(Street)

SAN JOSE, CA 95130

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading
Symbol
KLA TENCOR CORP [KLAC]

3. Date of Earliest Transaction
(Month/Day/Year)
08/18/2005

4. If Amendment, Date Original
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

____ Director _____ 10% Owner
__X__ Officer (give title _____ Other (specify
below) below)
Executive Vice President

6. Individual or Joint/Group Filing(Check
Applicable Line)
__X__ Form filed by One Reporting Person
____ Form filed by More than One Reporting
Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially 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. 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)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price		
Common Stock	08/18/2005		M		5,000	A	\$ 10.63	8,508	D
Common Stock	08/18/2005		S		5,000	D	\$ 49.3	3,508	D
Common Stock-Restricted Stock Units ⁽¹⁾								33,333	D

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

**Persons who respond to the collection of
information contained in this form are not
required to respond unless the form**

SEC 1474
(9-02)

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)

1. 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. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount Underlying Security (Instr. 3 and 4)	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Non-Qualified Stock Option (right to buy)	\$ 10.63	08/18/2005		M	5,000	08/31/1999	08/31/2008	Common Stock	5,000
Non-Qualified Stock Option (right to buy)	\$ 26.25					11/10/2001	11/10/2010	Common Stock	5,000
Non-Qualified Stock Option (right to buy)	\$ 29.31					10/02/2002	10/02/2011	Common Stock	22,500
Non-Qualified Stock Option (right to buy)	\$ 32.75					04/04/2002	04/04/2011	Common Stock	5,000
Non-Qualified Stock Option (right to buy)	\$ 33.75					10/27/2000	10/27/2009	Common Stock	20,000
Non-Qualified Stock Option (right to buy)	\$ 34.67					11/08/2003	01/28/2013	Common Stock	9,000
Non-Qualified Stock Option (right to buy)	\$ 37.05					11/08/2003	11/08/2012	Common Stock	4,500
Non-Qualified Stock Option (right to buy)	\$ 40.66					10/27/2004	08/02/2014	Common Stock	3,750
Non-Qualified Stock Option (right to buy)	\$ 41.79					09/21/2005	09/21/2014	Common Stock	75,000
Non-Qualified Stock Option	\$ 42.28					11/30/2000	11/30/2009	Common Stock	10,000

(right to buy)

Non-Qualified Stock Option (right to buy)	\$ 44.6875	08/13/2000	08/13/2010	Common Stock	10,0
Non-Qualified Stock Option (right to buy)	\$ 45.16	10/27/2004	04/26/2014	Common Stock	6,2
Non-Qualified Stock Option (right to buy)	\$ 51.229	11/08/2003	07/30/2013	Common Stock	4,5
Non-Qualified Stock Option (right to buy)	\$ 53.86	10/27/2004	10/27/2013	Common Stock	10,0
Non-Qualified Stock Option (right to buy)	\$ 58.1	10/27/2004	01/27/2014	Common Stock	5,0

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Glasser Lance A C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130			Executive Vice President	

Signatures

By: Stuart J. Nichols For: Lance A.
Glasser 08/22/2005

__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) Each restricted stock unit represents a contingent right to receive one share of KLAC common stock.

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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