

Glasser Lance A  
Form 4  
August 22, 2005

**FORM 4**

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

OMB APPROVAL

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

(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  
 Officer (give title below) \_\_\_ Other (specify below)  
Executive Vice President

6. Individual or Joint/Group Filing(Check Applicable Line)  
 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 (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 <sup>(1)</sup>					33,333	D	

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

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SEC 1474 (9-02)

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**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 of Underlying Security (Instr. 3 and 4)	Amount or Number of Shares
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	
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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