

KLA TENCOR CORP  
 Form 4  
 February 15, 2007

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549

OMB APPROVAL

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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, 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 \*  
 BARNHOLT EDWARD W

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)  
 02/14/2007

Director  10% Owner  
 Officer (give title below)  Other (specify below)

C/O KLA-TENCOR CORPORATION, 160 RIO ROBLES

(Street)

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

6. Individual or Joint/Group Filing(Check Applicable Line)

SAN JOSE, CA 95130

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 (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 Ownership (Instr. 4)
				(A) or (D) Code V Amount (D) Price			
Common Stock					1,000	D	
Common Stock-Restricted Stock Units <sup>(1)</sup>					1,000	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)	8. Date Acquired or Disposed of (Month/Day/Year)	9. Title and Amount of Underlying Security (Instr. 3 and 4)
Non-Qualified Stock Option (right to buy)	\$ 50.39	02/14/2007		A	1,250	02/14/2007 02/14/2014	Common Stock	1	
Non-Qualified Stock Option (right to buy)	\$ 50.39	02/14/2007		A	1,875	02/14/2007 02/14/2014	Common Stock	1	
Non-Qualified Stock Option (right to buy)	\$ 17.59					11/17/1998 11/17/2008	Common Stock	5	
Non-Qualified Stock Option (right to buy)	\$ 26.25					11/10/2000 11/10/2010	Common Stock	1	
Non-Qualified Stock Option (right to buy)	\$ 37.05					11/08/2002 11/08/2012	Common Stock	1	
Non-Qualified Stock Option (right to buy)	\$ 40.24					05/11/2005 05/11/2015	Common Stock	2	
Non-Qualified Stock Option (right to buy)	\$ 40.68					10/18/2004 10/18/2014	Common Stock	2	
Non-Qualified Stock Option (right to buy)	\$ 41.45					08/01/2006 08/01/2013	Common Stock	1	
Non-Qualified Stock Option (right to buy)	\$ 44.76					01/25/2005 01/25/2015	Common Stock	2	
Non-Qualified Stock Option (right to buy)	\$ 46.28					11/16/1999 11/16/2009	Common Stock	1	
Non-Qualified	\$ 47.23					11/09/2001 11/09/2011	Common	1	

Stock Option (right to buy)					Stock
Non-Qualified Stock Option (right to buy)	\$ 47.86	05/02/2006	05/02/2013	Common Stock	1
Non-Qualified Stock Option (right to buy)	\$ 49.99	11/04/2005	11/04/2012	Common Stock	1
Non-Qualified Stock Option (right to buy)	\$ 51.35	08/02/2005	08/02/2012 <sup>(2)</sup>	Common Stock	2
Non-Qualified Stock Option (right to buy)	\$ 51.98	01/31/2006	01/31/2013	Common Stock	1
Non-Qualified Stock Option (right to buy)	\$ 59.44	11/05/2003	11/05/2013	Common Stock	1

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
BARNHOLT EDWARD W C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X			

## Signatures

Edward W.  
Barnholt

02/15/2007

\*\*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.
- (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.