

KLA TENCOR CORP  
 Form 4  
 May 11, 2005

**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**

(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)  
**05/11/2005**

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)

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 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

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 displays a currently valid OMB control number.**

SEC 1474 (9-02)

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

1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	4. Transaction of Derivative	5. Number of Derivative	6. Date Exercisable and Expiration Date	7. Title and Amount Underlying Security
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Security (Instr. 3)	or Exercise Price of Derivative Security	any (Month/Day/Year)	Code (Instr. 8)	Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/Year)		(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)	\$ 40.24	05/11/2005	A		2,500		05/11/2005	05/11/2015	Common Stock	2,500
Non-Qualified Stock Option (right to buy)	\$ 10.63						04/25/1997	10/25/2006	Common Stock	10,000
Non-Qualified Stock Option (right to buy)	\$ 11.66						09/21/1999	09/21/2008	Common Stock	5,000
Non-Qualified Stock Option (right to buy)	\$ 17.59						11/17/1998	11/17/2008	Common Stock	5,800
Non-Qualified Stock Option (right to buy)	\$ 26.25						11/10/2000	11/10/2010	Common Stock	10,000
Non-Qualified Stock Option (right to buy)	\$ 34.94						09/19/1998	09/19/2007	Common Stock	5,000
Non-Qualified Stock Option (right to buy)	\$ 37.05						11/08/2002	11/08/2012	Common Stock	10,000
Non-Qualified Stock Option (right to buy)	\$ 40.68						10/18/2004	10/18/2014	Common Stock	2,500
Non-Qualified Stock Option (right to buy)	\$ 44.76						01/25/2005	01/25/2015	Common Stock	2,500
Non-Qualified Stock Option (right to buy)	\$ 46.28						11/16/1999	11/16/2009	Common Stock	10,000
Non-Qualified Stock Option (right to buy)	\$ 47.23						11/09/2001	11/09/2011	Common Stock	10,000
Non-Qualified Stock Option	\$ 59.44						11/05/2003	11/05/2013	Common Stock	10,000

