KLA TENCOR CORP

Form 4

August 01, 2006

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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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

1(b).

Stock Units (1)

(Print or Type Responses)

See Instruction

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading **BARNHOLT EDWARD W** Issuer Symbol KLA TENCOR CORP [KLAC] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) X_ Director 10% Owner Officer (give title Other (specify C/O KLA-TENCOR 08/01/2006 below) CORPORATION, 160 RIO **ROBLES** (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting SAN JOSE, CA 95130 (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security 2. Transaction Date 2A. Deemed 3. 4. Securities 5. Amount of 6. 7. Nature of (Instr. 3) (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Securities Ownership Indirect Code Disposed of (D) Beneficially Form: Beneficial (Instr. 3, 4 and 5) Ownership (Month/Day/Year) (Instr. 8) Owned Direct (D) or Indirect Following (Instr. 4) Reported (I) (A) Transaction(s) (Instr. 4) (Instr. 3 and 4) Code V Amount (D) Price Common Stock 1,000 D Common Stock-Restricted 1,000 D

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

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$\label{thm:convergence} \begin{tabular}{ll} Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned \\ (e.g., puts, calls, warrants, options, convertible securities) \end{tabular}$

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. Transactio 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 Ame Underlying Sect (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	An or No of
Non-Qualified Stock Option (right to buy)	\$ 41.45	08/01/2006		A	1,250	08/01/2006	08/01/2013	Common Stock	1
Non-Qualified Stock Option (right to buy)	\$ 17.59					11/17/1998	11/17/2008	Common Stock	4
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)	\$ 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 Stock Option (right to buy)	\$ 47.23					11/09/2001	11/09/2011	Common Stock	1
Non-Qualified Stock Option (right to buy)	\$ 47.86					05/02/2006	05/02/2013	Common Stock	1
Non-Qualified	\$ 49.99					11/04/2005	11/04/2012	Common	1

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Stock Option (right to buy)				Stock	
Non-Qualified Stock Option (right to buy)	\$ 51.35	08/02/2005	08/02/2012(2)	Common Stock	,
Non-Qualified Stock Option (right to buy)	\$ 51.98	01/31/2006	01/31/2013	Common Stock	
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				
topy coming of more a manufactures	Director	10% Owner	Officer	Other	
BARNHOLT EDWARD W C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X				

Signatures

By: Stuart J. Nichols For: Edward W.

Barnholt 08/01/2006

**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.

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