

NICHOLS STUART J
 Form 5
 August 11, 2005

FORM 5

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

OMB APPROVAL

OMB Number: 3235-0362
 Expires: January 31, 2005
 Estimated average burden hours per response... 1.0

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 Form 3 Holdings Reported Form 4 Transactions Reported

ANNUAL 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

1. Name and Address of Reporting Person *
 NICHOLS STUART J

(Last) (First) (Middle)

C/O KLA-TENCOR CORP., 160 RIO ROBLES

(Street)

SAN JOSE, CA 95134

(City) (State) (Zip)

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

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)
 06/30/2005

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)
 VP and General Counsel

6. Individual or Joint/Group Reporting

(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 at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
Common Stock				(A) or (D) Price	2,511	D	

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

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SEC 2270 (9-02)

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

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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)		
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Non-Qualified Stock Option	\$ 26.25	Â	Â	Â	Â	Â	11/10/2001	11/10/2010	Common Stock	4,3
Non-Qualified Stock Option	\$ 29.31	Â	Â	Â	Â	Â	10/02/2002	10/02/2011	Common Stock	12,0
Non-Qualified Stock Option	\$ 32.75	Â	Â	Â	Â	Â	04/04/2002	04/04/2011	Common Stock	6,0
Non-Qualified Stock Option	\$ 33.75	Â	Â	Â	Â	Â	10/27/2000	10/27/2009	Common Stock	21,0
Non-Qualified Stock Option	\$ 34.67	Â	Â	Â	Â	Â	11/08/2003	01/28/2013	Common Stock	6,5
Non-Qualified Stock Option	\$ 37.05	Â	Â	Â	Â	Â	11/08/2003	11/08/2012	Common Stock	3,2
Non-Qualified Stock Option	\$ 40.66	Â	Â	Â	Â	Â	10/27/2004	08/02/2014	Common Stock	2,2
Non-Qualified Stock Option	\$ 41.79	Â	Â	Â	Â	Â	09/21/2005	09/21/2014	Common Stock	15,0
Non-Qualified Stock Option	\$ 44.6875	Â	Â	Â	Â	Â	08/13/2001	08/13/2010	Common Stock	12,0
Non-Qualified Stock Option	\$ 45.16	Â	Â	Â	Â	Â	10/27/2004	04/26/2014	Common Stock	3,7
Non-Qualified Stock Option	\$ 51.229	Â	Â	Â	Â	Â	11/08/2003	07/30/2013	Common Stock	3,2
Non-Qualified Stock Option	\$ 53.86	Â	Â	Â	Â	Â	10/27/2004	10/27/2013	Common Stock	6,0
Non-Qualified Stock Option	\$ 58.1	Â	Â	Â	Â	Â	10/27/2004	01/27/2014	Common Stock	3,0

Reporting Owners

Reporting Owner Name / Address

Relationships

Reporting Owners

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Director 10% Owner Officer Other

NICHOLS STUART J
C/O KLA-TENCOR CORP.
160 RIO ROBLES
SAN JOSE, CA 95134

^ ^ ^ VP and General Counsel ^

Signatures

Stuart J. Nichols 08/11/2005

**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).

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.