

OMB APPROVAL	
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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>YARBRO STAN</u> (Last) (First) (Middle) C/O KLA-TENCOR CORPORATION 160 RIO ROBLES (Street) SAN JOSE CA 95130 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 11/05/2003	3. Issuer Name and Ticker or Trading Symbol <u>KLA TENCOR CORP [KLAC]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) Group VP, Field Operations	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date				
Non-Qualified Stock Option (right to buy)	11/10/2005	11/10/2010	Common Stock	3,938	26.25	D
Non-Qualified Stock Option (right to buy)	10/02/2002	10/02/2011	Common Stock	14,250	29.31	D
Non-Qualified Stock Option (right to buy)	04/04/2002	04/04/2011	Common Stock	4,667	32.75	D
Non-Qualified Stock Option (right to buy)	10/27/2000	10/27/2009	Common Stock	334	33.75	D
Non-Qualified Stock Option (right to buy)	11/08/2003	01/28/2013	Common Stock	20,000	34.67	D
Non-Qualified Stock Option (right to buy)	11/08/2003	11/08/2012	Common Stock	10,000	37.05	D
Non-Qualified Stock Option (right to buy)	08/13/2000	08/13/2010	Common Stock	3,243	44.6875	D
Non-Qualified Stock Option (right to buy)	11/08/2003	07/30/2013	Common Stock	10,000	51.229	D
Non-Qualified Stock Option (right to buy)	10/27/2004	10/27/2013	Common Stock	18,000	53.86	D

Explanation of Responses:

By: Stuart J. Nichols For: Stan K. Yarbrow 11/14/2003

** Signature of Reporting Person Date

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

* If the form is filed by more than one reporting person, see Instruction 5 (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 is insufficient, see Instruction 6 for procedure.

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 Number.