

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

OMB APPROVAL							
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Estimated average burden							
nours per respons	e 0.5						

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

		the myesun	ciii Compa	ily Act of 1740					
(Print or Type Responses)									
1. Name and Address of Reporting Person * YARBRO STAN	Stateme	2. Date of Event Requiring Statement (Month/Day/Year) 11/05/2003		3. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]					
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, 160 RIO ROBLES				ssuer	Reporting Person(s Il applicable)	·	5. If Amendment, Date Original Filed(Month/Day/Year) 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		
(Street) SAN JOSE, CA 95130				X_ Officer (give title elow)		Applicable Li _X_ Form file			
(City) (State) (Zip)			Table I -	Non-Derivativ	ve Securities B				
1.Title of Security (Instr. 4)			nount of Secu ficially Owne	rities 3 F	Ownership orm: Direct (In D) or Indirect	4. Nature of Indirect Beneficial Ownership (Instr. 5)			
Reminder: Report on a separate line for each c		•	-	•	is form are not	required to res	SEC 1473 (7-02)		
unless the form	displays a cu	rrently valid	OMB contro	ol number.	nts, options, conv				
1. Title of Derivative Security (Instr. 4)	1	Date Exercisable and Appiration Date See Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		5. Ownership Form of Derivative Security:	6. Nature of Indirect Beneficial Ownership (Instr. 5)		
	Date Exercisable	Expiration Date	Title	Amount or Number of Share	Security	Direct (D) or Indirect (I) (Instr. 5)			
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	10/27/2004	10/27/2013	Common	18,000	\$ 53.86	D			

Stock

Reporting Owners

buy)

Reporting Owner Name / Address	Relationships				
	Director	10% Owner	Officer	Other	
YARBRO STAN C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130			Group VP, Field Operations		

Signatures By: Stuart J. Nichols For: Stan K. Yarbro Signature of Reporting Person Date

Explanation of Responses:

- * 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.

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.