FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN 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

(Print or Typ	e Responses)																	
1. Name and Address of Reporting Person * URBANEK LIDA				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner							
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, 160 RIO ROBLES				3. Date of Earliest Transaction (Month/Day/Year) 10/18/2004									Officer (give	title below)		Other (sp	pecify below)		
(Street) SAN JOSE, CA 95130				4. If Amendment, Date Original Filed(Month/Day/Year)							_X_ F	6. Individual or Joint/Group FilingCheck Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City		(State)	(Zip)				Table	a I – No	n_Doris	otivo	Securitie	as A co	uired 1	Disposed A	of or Renet	ficially ()	wnod		
1.Title of Security 2. Transaction (Instr. 3) Date		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if		ate, if		ansactio	n 4. S	4. Securities Acqui (A) or Disposed of (Instr. 3, 4 and 5)		ired	5. Amo	red, Disposed of, or Beneficially C Amount of Securities Beneficially wned Following Reported ansaction(s)			6. Owner Form:	rship Indire Benet	Beneficial	
			(Month/Day/Year)		Code		V Am	Amount (A) or (D) Pr		Price	(Instr. 3	`		Direct or Indi (I) (Instr.	irect (Instr				
Common Stock											29,55	5			Ι	Fam Four	ily idation		
Common	Stock											1,271,414			I	by T	rust		
Reminder: F	Report on a se	eparate line for each	class of securities l	eneficial	ly ov	wned d	irectly	or indi	rectly.										
								in	this f	orm a	are not r	equir	red to r		f informati Inless the Imber.		tained	SEC 147	74 (9-02)
			Table II								f, or Bene ble secur		ly Own	ed					
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. 5. Transaction of Code D (Anstr. 8) S (An		5. Nu	mber ative ities ired r ssed)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. T of U Sec	Title and Inderlyi urities str. 3 and	Ü		9. Number of Derivative Securities Beneficially Owned Following Reported Transaction ((Instr. 4)	ve es ially ng d tion(s)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirec Beneficia Ownershi (Instr. 4)		
				Code	v	(A)	(D)	Date Exerci	isable	Exp Dat	viration e	Titl	e	Amount or Number of Shares					
Non- Qualified Stock Option (right to buy)	\$ 40.68	10/18/2004		A		2,500	0	10/18	3/2004	10/	18/2014	11	mmon stock	2,500	\$ 0	2,50	00	D	
Non- Qualified Stock Option (right to buy)	\$ 12.50							06/13	3/1996	05/	13/2006	`	mmon stock	5,280		5,28	80	D	
Non- Qualified Stock Option (right to	\$ 13.44							07/22	2/1999	07/	/22/2008	`	mmon stock	5,000		5,00	00	D	

Non- Qualified Stock Option (right to buy)	\$ 17.59			11/17/1998	11/17/2008	Common Stock	6,666	6,666	D	
Non- Qualified Stock Option (right to buy)	\$ 17.78			06/15/1995	05/15/2005	Common Stock	1,946	1,946	D	
Non- Qualified Stock Option (right to buy)	\$ 26.25			11/10/2000	11/10/2010	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option (right to buy)	\$ 29			07/22/1998	07/22/2007	Common Stock	5,000	5,000	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05			11/08/2002	11/08/2012	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option (right to buy)	\$ 46.28			11/16/1999	11/16/2009	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option (right to buy)	\$ 47.23			11/09/2001	11/09/2011	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option (right to buy)	\$ 59.44			11/05/2003	11/05/2013	Common Stock	10,000	10,000	D	

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
URBANEK LIDA C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X						

Signatures

By: Stuart J. Nichols For: Lida Urbanek	10/18/2004		
**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 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.