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

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longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

(Print or Type Responses)

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

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					
C/O KLA ROBLES	3. Date of Earliest Transaction (Month/Day/Year) 05/02/2006									Officer (give	title below)			pecify below)				
		4. If Amendment, Date Original Filed(Month/Day/Year)										Joint/Group		heck App	licable Line)			
SAN JOS	E, CA 951	30												One Reporting I More than One I		erson		
(City)	(State)	(Zip)		Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned													
1.Title of Se	ecurity		2. Transaction	2A. Dee						curities Acqui				curities Bene	eficially	6.		ture of
(Instr. 3)			Date (Month/Day/Year)			. (Code (Instr.		. ,	r Disposed of c. 3, 4 and 5)		Transac	ction(s)	g Reported		Form:	ship Indire Benef	ficial
				(Month/	'Day	/Year)						(Instr. 3	3 and 4)			Direct or Indi	(D) Ownerect (Instr.	
							Coo	de V	Amo	unt (A) or (D)	Price					(I) (Instr.	4)	
Common	Stock										_	1,946				D	,	
Common	Stock											29,55	5			I	Fami	ily ndation
Common	Stock											1,271	414			I	by T	rust
Common Units (1)	Stock-Res	tricted Stock										1,000				D		
																l		
Reminder: F	Report on a se	eparate line for each	class of securities b	peneficial	ly ov	vned dir	ectly		-	who respon	d to tl	he coll	ection o	f informati	on cont	ained	SEC 147	74 (9-02)
										m are not re					form			
			Table II	Dowland	: C	Yo annuitie	na A a	animad Dia		d of, or Bene	fiaially	·· Oven	.a					
	1			(e.g., pu		alls, wa	rrant	s, options,	conv	ertible securi	ities)				1			1
1. Title of Derivative	2. Conversion	3. Transaction Date	3A. Deemed Execution Date, if	4. Transac	tion	5. Num of	ber	Date Ex Expiration				tle and nderlyii	Amount ng	8. Price of Derivative			10. Ownership	11. Nature of Indirect
Security (Instr. 3)	or Exercise Price of	(Month/Day/Year)	any (Month/Day/Year)	Code (Instr. 8	6)	Derivat Securit		(Month/Da	ay/Ye	ear)	Secu (Inst	rities r. 3 and	4)	Security (Instr. 5)	Securitie Benefici		Form of Derivative	Beneficial Ownership
	Derivative Security				,	Acquir (A) or	ed								Owned Followin		Security: Direct (D)	(Instr. 4)
	Security					Dispose of (D)	ed								Reporte	d	or Indirect	
						(Instr. 3	3, 4,								(Instr. 4)		(Instr. 4)	
						and 5)							Amount					
								Date		Expiration	Title		or Number					
				Code	v	(A)	(D)	Exercisabl	le	Date	Title		of Shares					
Non-				Code	v	(A)	(D)						Silaies					
Qualified																		
Stock Option	\$ 47.86	05/02/2006		A		1,250		05/02/20	006	05/02/2013		nmon	1,250	\$ 0	1,23	50	D	
(right to												OCK						
buy)																		
Non- Qualified																		
Stock	\$ 13.44							07/22/10	000	07/22/2008	Con	nmon	5,000		5,00	20	D	
Option (right to	φ 13.44							01/22/19	,,,,	0772272000	St	ock	3,000		3,00		D	
buy)																		
Non-																		
Qualified Stock											Com	nmor						
Option	\$ 17.59							11/17/19	998	11/17/2008		nmon ock	6,666		6,60	56	D	
(right to buy)																		

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)	\$ 40.24			05/11/2005	05/11/2015	Common Stock	2,500	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 40.68			10/18/2004	10/18/2014	Common Stock	2,500	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 44.76			01/25/2005	01/25/2015	Common Stock	2,500	2,500	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)	\$ 49.99			11/04/2005	11/04/2012	Common Stock	1,250	1,250	D	
Non- Qualified Stock Option (right to buy)	\$ 51.35			08/02/2005	08/02/2015	Common Stock	2,500	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 51.98			01/31/2006	01/31/2013	Common Stock	1,250	1,250	D	

Non-											1
Qualified											i
Stock	\$ 59.44				11/05/2003	11/05/2013	Common	10 000	10,000	D	
Option	Ψ 37.11				11/03/2003	11/05/2015	Stock	10,000	10,000		
(right to											i
buy)											i

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	05/02/2006			
**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.

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.