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

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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

(Fint of Type Responses)									- r				
1. Name and Address of F URBANEK LIDA	2. Issuer Name an KLA TENCOR			.	ol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner							
(Last) C/O KLA-TENCOR ROBLES	(First) CORPORATIO	037 4 (0 B TO	3. Date of Earliest Transaction (Month/Day/Year) 01/25/2005						Officer (give title below)Other (specify below)				
SAN JOSE, CA 9513		4. If Amendment, D	ate Origina	l File	d(Month/Day	/Year)	6. Individual or Joint/Group FilingCheck Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(State)	(Zip)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned										
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)		(Instr. 8)		(A) or Disposed of (D) (Instr. 3, 4 and 5)		of (D)	Owned Following Reported Transaction(s)	Ownership Indirect Form: Beneficial	Beneficial		
			(Month/Day/Year)	Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)		
Common Stock									29,555	Ι	Family Foundation		
Common Stock									1,271,414	Ι	by Trust		

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

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 Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(e.g., puts, calls, warrants, options, convertible securities)														
1. Title of	2.	3. Transaction	3A. Deemed	4.		5. Num	ber	6. Date Exerci	sable and	7. Title and	Amount	8. Price of	9. Number of	10.	11. Nature
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Code)	of Derivat Securit Acquira (A) or Dispose of (D) (Instr. 3 and 5)	ies ed ed	Expiration Date (Month/Day/Year)		of Underlying Securities		(Instr. 5)	Securities Beneficially Owned Following Reported Transaction(s)	Derivative Security: Direct (D) or Indirect	Beneficial
				Code	v	(A)	(D)	Exercisable	Expiration Date		Amount or Number of Shares				
Non- Qualified Stock Option (right to buy)	\$ 44.76	01/25/2005		А		2,500		01/25/2005	01/25/2015	Common Stock	2,500	\$ O	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 12.50							06/13/1996	05/13/2006	Common Stock	280		280	D	
Non- Qualified Stock Option (right to buy)	\$ 13.44							07/22/1999	07/22/2008	Common Stock	5,000		5,000	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)	\$ 40.68			10/18/2004	10/18/2014	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)	\$ 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	Х						

Signatures

**Signature of Reporting Person

01/26/2005 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.

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