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

SCHEDULE 13G

Under the Securities exchange Act of 1934

KLA-TENCOR CORP

(NAME OF ISSUER)

COM

(TITLE OF CLASS OF SECURITIES)

482480100

(CUSIP NUMBER)

December 31, 2004

(Date of event which requires filing of this Statement)

NOTE: A MAJORITY OF THE SHARES REPORTED IN THIS SCHEDULE 13G ARE HELD BY UNAFFILIATED THIRD-PARTY CLIENT ACCOUNTS MANAGED BY ALLIANCE CAPITAL MANAGEMENT L.P., AS INVESTMENT ADVISER. (ALLIANCE CAPITAL MANAGEMENT L.P. IS A MAJORITY-OWNED SUBSIDIARY OF AXA FINANCIAL, INC.)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

X Rule 13d-1(b) Rule 13d-1(c) Rule 13d-1(d)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be 'filed' for the purpose of Section 18 of the Securities Exchange Act of 1934 ('Act') or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

(CONTINUED ON FOLLOWING PAGE(S))

CUSIP NO. 482480100	1	.3G	Page 2	of 12 Pages			
1. NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON							
AXA Assurances I.A	.R.D. Mut	cuelle					
2. CHECK THE APPROPRIATE	BOX IF A	A MEMBER OF A GROUP *	(A) (B)				
3. SEC USE ONLY							
4. CITIZENSHIP OR PLACE France	OF ORGANI	ZATION					
NUMBER OF SHARES BENEFICIALLY	5. SC	DLE VOTING POWER	7,684,	426			
OWNED AS OF December 31, 2004	6. SH	HARED VOTING POWER	1,406,	259			
BY EACH	7. SC	LE DISPOSITIVE POWER	10,263	,799			

REPORTING PERSON WITH: 8. SHARED DISPOSITIVE POWER 22,577

9.	AGGREGATE AMOUNT BENEF REPORTING PERSON	ICIALLY OWNED BY EACH s an admission of beneficial ow	10,286,376					
10.	. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES *							
11	DEDCENT OF CIACS DEDDE	sented by amount in row 9	5 3%					
			5.5%					
12.	TYPE OF REPORTING PERS							
	* SEE 1	NSTRUCTIONS BEFORE FILLING OUT!						
CUSI	P NO. 482480100	13G	Page 3 of 12 Pages					
1.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIF	ON ICATION NO. OF ABOVE PERSON						
	AXA Assurances Vie	Mutuelle						
2.	CHECK THE APPROPRIATE	BOX IF A MEMBER OF A GROUP *	(A) [X] (B) []					
3.	SEC USE ONLY							
4.	CITIZENSHIP OR PLACE O France	F ORGANIZATION						
		5. SOLE VOTING POWER	7,684,426					
		6. SHARED VOTING POWER	1,406,259					
	December 31, 2004 BY EACH	7. SOLE DISPOSITIVE POWER	10,263,799					
	REPORTING PERSON WITH:	8. SHARED DISPOSITIVE POWER	22,577					
9.	REPORTING PERSON	ICIALLY OWNED BY EACH s an admission of beneficial ow						
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10.	SHARES *	GATE AMOUNT IN ROW (9) EXCLUDES	CERTAIN					
11.	PERCENT OF CLASS REPRE	SENTED BY AMOUNT IN ROW 9	5.3%					
12.	TYPE OF REPORTING PERS	on *						
		NSTRUCTIONS BEFORE FILLING OUT!						
CUSI	P NO. 482480100	13G	Page 4 of 12 Pages					
1.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIF	ON ICATION NO. OF ABOVE PERSON						
	AXA Courtage Assura	nce Mutuelle						
2.	CHECK THE APPROPRIATE	BOX IF A MEMBER OF A GROUP \star	(A) [X] (B) []					
3.	SEC USE ONLY							
4.	CITIZENSHIP OR PLACE O France	F ORGANIZATION						
		5. SOLE VOTING POWER	7,684,426					
		6. SHARED VOTING POWER	1,406,259					
		7. SOLE DISPOSITIVE POWER	10,263,799					
	REPORTING PERSON WITH:	8. SHARED DISPOSITIVE POWER	22,577					
9.		ICIALLY OWNED BY EACH	10,286,376					
	REPORTING PERSON (Not to be construed a	s an admission of beneficial ow	mership)					
1.0	CHECK BOX IF THE AGGRE	GATE AMOUNT IN ROW (9) EXCLUDES	CERTAIN					

1 1				
⊥⊥.	PERCENT OF CLASS REPRE	ESENTH	ed by amount in row 9	5.3%
12.	TYPE OF REPORTING PERS	SON *		
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CUSI	P NO. 482480100	INSIN	13G	Page 5 of 12 Pages
1.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIN		ION NO. OF ABOVE PERSON	
	AXA			
2.	CHECK THE APPROPRIATE	BOX	IF A MEMBER OF A GROUP *	(A) [] (B) []
3.	SEC USE ONLY			
4.	CITIZENSHIP OR PLACE (France	OF ORG	GANIZATION	
		5.	SOLE VOTING POWER	7,684,426
	BENEFICIALLY OWNED AS OF	6.	SHARED VOTING POWER	1,406,259
	December 31, 2004 BY EACH	7.	SOLE DISPOSITIVE POWER	10,263,799
	REPORTING		SHARED DISPOSITIVE POWER	
9.	AGGREGATE AMOUNT BENER	FICIAI	LLY OWNED BY EACH	10,286,376
	REPORTING PERSON (Not to be construed a	as an	admission of beneficial ow	nership)
10.	CHECK BOX IF THE AGGRE SHARES *	EGATE	AMOUNT IN ROW (9) EXCLUDES	CERTAIN
11.	PERCENT OF CLASS REPRE	ESENTE	ed by Amount in row 9	5.3%
12.	TYPE OF REPORTING PERS	SON *		
	* SEE]	INSTRU	JCTIONS BEFORE FILLING OUT!	
USI	P NO. 482480100		13G	Page 6 of 12 Pages
	NAME OF REPORTING PERS		13G ION NO. OF ABOVE PERSON	Page 6 of 12 Pages
	NAME OF REPORTING PERS	FICATI	ION NO. OF ABOVE PERSON	Page 6 of 12 Pages
1.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIN AXA Financial, Inc.	FICATI	ION NO. OF ABOVE PERSON	Page 6 of 12 Pages (A) [] (B) []
1. 2.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIN AXA Financial, Inc.	FICATI	ION NO. OF ABOVE PERSON 13-3623351	(A) []
1. 2. 3.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIN AXA Financial, Inc. CHECK THE APPROPRIATE	FICATI • BOX I	ION NO. OF ABOVE PERSON 13-3623351 IF A MEMBER OF A GROUP *	(A) []
1. 2. 3.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIN AXA Financial, Inc. CHECK THE APPROPRIATE SEC USE ONLY CITIZENSHIP OR PLACE O State of Delaware NUMBER OF SHARES	FICATI BOX I	ION NO. OF ABOVE PERSON 13-3623351 IF A MEMBER OF A GROUP *	(A) [] (B) []
1. 2. 3.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIH AXA Financial, Inc. CHECK THE APPROPRIATE SEC USE ONLY CITIZENSHIP OR PLACE O State of Delaware NUMBER OF SHARES BENEFICIALLY OWNED AS OF	FICATI BOX I DF ORC 5.	ION NO. OF ABOVE PERSON 13-3623351 IF A MEMBER OF A GROUP * GANIZATION SOLE VOTING POWER	(A) [] (B) [] 7,679,285
1. 2. 3.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIH AXA Financial, Inc. CHECK THE APPROPRIATE SEC USE ONLY CITIZENSHIP OR PLACE O State of Delaware NUMBER OF SHARES BENEFICIALLY OWNED AS OF December 31, 2004	FICATI BOX I DF ORC 5. 6.	ION NO. OF ABOVE PERSON 13-3623351 IF A MEMBER OF A GROUP * GANIZATION	<pre>(A) [] (B) [] 7,679,285 1,406,259</pre>
1. 2. 3.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIH AXA Financial, Inc. CHECK THE APPROPRIATE SEC USE ONLY CITIZENSHIP OR PLACE O State of Delaware NUMBER OF SHARES BENEFICIALLY OWNED AS OF December 31, 2004 BY EACH REPORTING	FICATI BOX 1 DF ORC 5. 6. 7.	ION NO. OF ABOVE PERSON 13-3623351 IF A MEMBER OF A GROUP * GANIZATION SOLE VOTING POWER SHARED VOTING POWER	<pre>(A) [] (B) []</pre> 7,679,285 1,406,259 10,256,758
1. 2. 3. 4.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIN AXA Financial, Inc. CHECK THE APPROPRIATE SEC USE ONLY CITIZENSHIP OR PLACE O State of Delaware NUMBER OF SHARES BENEFICIALLY OWNED AS OF December 31, 2004 BY EACH REPORTING PERSON WITH: AGGREGATE AMOUNT BENEF	FICATI BOX 1 DF ORC 5. 6. 7. 8.	ION NO. OF ABOVE PERSON 13-3623351 IF A MEMBER OF A GROUP * GANIZATION SOLE VOTING POWER SHARED VOTING POWER SOLE DISPOSITIVE POWER	<pre>(A) [] (B) []</pre> 7,679,285 1,406,259 10,256,758 22,577
1. 2. 3. 4.	NAME OF REPORTING PERS S.S. OR I.R.S. IDENTIN AXA Financial, Inc. CHECK THE APPROPRIATE SEC USE ONLY CITIZENSHIP OR PLACE OF State of Delaware NUMBER OF SHARES BENEFICIALLY OWNED AS OF December 31, 2004 BY EACH REPORTING PERSON WITH: AGGREGATE AMOUNT BENEFIC	FICATI BOX I DF ORC 5. 6. 7. 8. FICIAI	ION NO. OF ABOVE PERSON 13-3623351 IF A MEMBER OF A GROUP * GANIZATION SOLE VOTING POWER SHARED VOTING POWER SOLE DISPOSITIVE POWER SHARED DISPOSITIVE POWER	<pre>(A) [] (B) []</pre> 7,679,285 1,406,259 10,256,758 22,577 10,279,335

SHARES *

12. TYPE OF REPORTING PERSON *

* SEE INSTRUCTIONS BEFORE FILLING OUT!

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Item 1(a) Name of Issuer: KLA-TENCOR CORP

Item 1(b) Address of Issuer's Principal Executive Offices: 160 Rio Robles San Jose, CA 95134

Item 2(a) and (b) Name of Person Filing and Address of Principal Business Office:

> AXA Assurances I.A.R.D Mutuelle, and AXA Assurances Vie Mutuelle, 26, rue Drouot 75009 Paris, France

AXA Courtage Assurance Mutuelle 26, rue Drouot 75009 Paris, France

as a group (collectively, the 'Mutuelles AXA').

AXA 25, avenue Matignon 75008 Paris, France

AXA Financial, Inc. 1290 Avenue of the Americas New York, New York 10104

(Please contact Dean Dubovy at (212) 314-5528 with any questions.)

13G Page 8 of 12 Pages Item 2(c) Citizenship: Mutuelles AXA and AXA - France AXA Financial, Inc. - Delaware Item 2(d) Title of Class of Securities: COM Item 2(e) Cusip Number: 482480100 Type of Reporting Person: Ttem 3. AXA Financial, Inc. as a parent holding company, in accordance with 240.13d-1(b)(ii)(G). The Mutuelles AXA, as a group, acting as a parent holding company. AXA as a parent holding company. 13G Page 9 of 12 Pages <TABLE> Item 4. Ownership as of December 31, 2004 (a) Amount Beneficially Owned: 10,286,376 shares of common stock beneficially owned including: <CAPTION> No. of Shares Subtotals _____ <S> AXA 0

AXA Entity or Entities

AXA Investment Managers Paris (France) AXA Rosenberg Investment Management LLC		3,541 3,500
AXA Financial, Inc.		0
Subsidiaries:		
Advest, Inc. acquired solely for investment purposes on behalf of client discretionary investment advisory accounts:		
Common Stock	252	
Alliance Capital Management L.P. acquired solely for investment purposes on behalf of client discretionary investment advisory accounts:		252
Common Stock	10,142,228	
AXA Equitable Life Insurance Company		10,142,228
acquired solely for investment purposes:		
Common Stock Boston Advisors, Inc. acquired solely for investment purposes on behalf of client discretionary investment advisory accounts:	136,555	136,555

Common Stock	300
	300
Total	10,286,376
	=======================================

Each of the Mutuelles AXA, as a group, and AXA expressly declares that the filing of this Schedule 13G shall not be construed as an admission that it is, for purposes of Section 13(d) of the Exchange Act, the beneficial owner of any securities covered by this Schedule 13G.

Each of the above subsidiaries of AXA Financial, Inc. operates under independent management and makes independent decisions. $<\!\!\!\!S\!\!>$

(b)	Percent of	Class:	5.3%
			<0>

</TABLE>

<TABLE> ITEM 4. Ownership as of December 31, 2004 (CONT.)

(c) Deemed Voting Power and Disposition Power:

<CAPTION>

		(i) Deemed to have Sole Power to Vote or to Direct the Vote	(ii) Deemed to have Shared Power to Vote or to Direct the Vote	(iii) Deemed to have Sole Power to Dispose or to Direct the Disposition		
J	<s> The Mutuelles AXA, as a group AXA</s>	<c></c>	<c> 0 0</c>	<c></c>	<c> 0 0</c>	
P	AXA Entity or Entities: AXA Investment	3,541	0	3,541	0	

Managers Paris (France) AXA Rosenberg Investment Management LLC	1,600	0	3,500	0
AXA Financial, Inc.	0	0	0	0
Subsidiaries:				
Advest, Inc.	0	252	0	252
Alliance Capital Management L.P.	7,543,174	1,406,007	10,119,903	22,325
Boston Advisors, Inc.	0	0	300	0
AXA Equitable Life Insurance Company	136,111	0	136,555	0
	7,684,426	1,406,259	10,263,799	22,577

Each of the above subsidiaries of AXA Financial, Inc. operates under independent management and makes independent voting and investment decisions. </TABLE>

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Item 5. Ownership of Five Percent or Less of a Class: If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following.

()

- Item 6. Ownership of More than Five Percent on behalf of Another Person. N/A
- Item 7. Identification and Classification of the Subsidiary which Acquired the Security Being Reporting on by the Parent Holding Company:

This Schedule 13G is being filed by AXA Financial, Inc.; AXA, which owns AXA Financial, Inc.; and the Mutuelles AXA, which as a group control AXA:

- (X) in the Mutuelles AXAs' capacity, as a group, acting as a parent holding company with respect to the holdings of the following AXA entity or entities:
- (X) in AXA's capacity as a parent holding company with respect to the holdings of the following AXA entity or entities:

AXA Investment Managers Paris (France)

AXA Rosenberg Investment Management LLC

- (X) in AXA Financial, Inc.'s capacity as a parent holding company with respect to the holdings of the following subsidiaries:
- (X) Advest, Inc. (06-0950348), a broker-dealer registered under Section 15 of the Securities Exchange Act of 1934 and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940.
- (X) Alliance Capital Management L.P. (13-3434400), an investment adviser registered under Section 203 of the Investment Advisers Act of 1940.
- (X) AXA Equitable Life Insurance Company (13-5570651), an insurance company and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940.
- (X) Boston Advisors, Inc. (04-2805120), an investment adviser registered under Section 203 of the Investment Advisers Act of 1940.
- (X) Frontier Trust Company, FSB (Advest Trust) (45-0373941), an investment adviser registered under Section 203 of the Investment Advisers Act of 1940.

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Item	8.	Identification a	and Cla	ssification	of	Members	of	the	Group.	N/A
Item	9.	Notice of Diss	olutior	of Group:						N/A

Item 10. Certification:

By signing below I certify that to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purposes or effect.

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

/s/ Alvin H. Fenichel

Alvin H. Fenichel Senior Vice President and Controller

*Pursuant to the Joint Filing Agreement with respect to Schedule 13G attached hereto as Exhibit I, among AXA Financial, Inc., AXA Assurances I.A.R.D Mutuelle, AXA Assurances Vie Mutuelle, AXA Courtage Assurance Mutuelle, and AXA, this statement Schedule 13G is filed on behalf of each of them.

EXHIBIT I

JOINT FILING AGREEMENT

Each of the undersigned hereby agrees that the Schedule 13G filed herewith is filed jointly, pursuant to Rule 13d-1(f)(1) of the Securities Exchange Act of 1934, as amended on behalf of each of them.

Dated: February 14, 2005

AXA Financial, Inc.

BY: /s/ Alvin H. Fenichel Alvin H. Fenichel Senior Vice President and Controller

AXA Assurances I.A.R.D. Mutuelle; AXA Assurances Vie Mutuelle; AXA Courtage Assurance Mutuelle, as a group, and AXA

Signed on behalf of each of the above entities

BY: /s/ Alvin H. Fenichel Alvin H. Fenichel Attorney-in-Fact (Executed pursuant to Powers of Attorney)