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)
СОМ
(TITLE OF CLASS OF SECURITIES)
482480100
(CUSIP NUMBER)
December 31, 2009

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

(Date of event which requires filing of this Statement)

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))

<PAGE

CUSIP NO. 482480100 13G

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1. NAME OF REPORTING PERSON
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

AXA Assurances I.A.R.D. Mutuelle

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP * (A) [X]

(B) []

- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION France

NUMBER OF	5. SOLE VOTING POWER	7,533,440
SHARES BENEFICIALLY	6. SHARED VOTING	0
December 31, BY EACH	POWER	10,140,496
REPORTING PERSON WITH:	7. SOLE DISPOSITIVE POWER	0

9. AGGREGATE AMOUNT BENEFICIALLY 10,140,496 OWNED BY EACH (Not to be construed as an admission of beneficial ownership) 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES * 1 1 5.9% 11. PERCENT OF CLASS REPRESENTED BY 12. TYPE OF REPORTING PERSON * * SEE INSTRUCTIONS BEFORE FILLING OUT! <PAGE CUSIP NO. 482480100 13G Page 3 of 11 Pages 1. NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION 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 OF ORGANIZATION France 5. SOLE VOTING POWER NUMBER OF 7,533,440 SHARES 6. SHARED VOTING BENEFICIALLY December 31, POWER BY EACH 10,140,496 7. SOLE DISPOSITIVE REPORTING POWER PERSON WITH: 9. AGGREGATE AMOUNT BENEFICIALLY 10,140,496 OWNED BY EACH (Not to be construed as an admission of beneficial ownership) 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES * 1.1 11. PERCENT OF CLASS REPRESENTED BY 5.9% 12. TYPE OF REPORTING PERSON * IC * SEE INSTRUCTIONS BEFORE FILLING OUT! <PAGE CUSIP NO. 482480100 13G Page 4 of 11 1. NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION 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 OF ORGANIZATION France 7,533,440 NUMBER OF 5. SOLE VOTING POWER SHARES 6. SHARED VOTING BENEFICIALLY OWNED AS OF POWER December 31, 10,140,496 7. SOLE DISPOSITIVE REPORTING PERSON WITH: POWER

10,140,496

9. AGGREGATE AMOUNT BENEFICIALLY

```
(Not to be construed as an admission of beneficial ownership)
 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9)
EXCLUDES CERTAIN
     SHARES *
                                                                1 1
                                                             5.9%
 11. PERCENT OF CLASS REPRESENTED BY
 12. TYPE OF REPORTING PERSON *
       IC
                    * SEE INSTRUCTIONS BEFORE FILLING OUT!
<PAGE
CUSIP NO. 482480100
                                 13G
                                                         Page 5 of 11 Pages
 1. NAME OF REPORTING PERSON
    S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON
      AXA Financial, Inc.
                              13-3623351
 2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A
GROUP * (A) [ ]
                                                              (B) [ ]
 3. SEC USE ONLY
 4. CITIZENSHIP OR PLACE OF ORGANIZATION
      State of Delaware
         NUMBER OF
                         5. SOLE VOTING POWER
                                                           7,415,242
           SHARES
                       6. SHARED VOTING
        BENEFICIALLY
        December 31,
                         POWER
                                                            9,950,798
          BY EACH
                         7. SOLE DISPOSITIVE
          REPORTING
                         POWER
        PERSON WITH:
 9. AGGREGATE AMOUNT BENEFICIALLY
                                                            9,950,798
OWNED BY EACH
    (Not to be construed as an admission of beneficial ownership)
10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9)
EXCLUDES CERTAIN
    SHARES *
                                                              1 1
                                                            5.8%
11. PERCENT OF CLASS REPRESENTED BY
12. TYPE OF REPORTING PERSON *
                   * SEE INSTRUCTIONS BEFORE FILLING OUT!
<PAGE
                                 13G
                                                         Page 6 of 11 Pages
Item 1(a) Name of
         KLA-TENCOR CORP
Item 1(b) Address of Issuer's Principal Executive Offices:
         One Technology Drive
         Milpitas, CA 95035
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
         as a group (collectively, the 'Mutuelles AXA').
         AXA
         25, avenue Matignon
         75008 Paris, France
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AXA Financial, Inc.

1290 Avenue of the Americas New York, New York 10104

<PAGE 13G Page 7 of 11 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 Item 3. Type of Reporting Person: 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. <PAGE 13G Page 8 of 11 Pages <TABL Item 4. Ownership as December 31, (a) Amount Beneficially Owned: 10,140,496 shares of common stock beneficially owned including: <CAPTION> No. of Shares Subtotals _____ The Mutuelles AXA, as a group Ω 0 AXA AXA Entity or Entities acquired solely for investment Common 4,500 AXA Investment Managers Paris AXA Investment Managers UK Ltd 39,000 AXA Konzern AG (Germany) 600 145,598 AXA Rosenberg Investment AXA Financial, Inc. Subsidiaries: AllianceBernstein L.P. acquired solely for investment purposes on behalf of client discretionary investment advisory accounts: 9,815,868 Common Stock 9,815,868 AXA Equitable Life Insurance Company acquired solely for investment purposes:

Each of the Mutuelles AXA, as a group, and AXA expressly declares that the

134,930

134,930

10,140,496

Common Stock

Total

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.

(b) Percent of Class:

5.9%

<TABLE>

(CONT.)

ITEM 4. Ownership as of

(c) Deemed Voting Power and Disposition Power: <CAPTION>

<pre><caption> Power</caption></pre>	(i) Deemed to have Sole Power	(ii) Deemed to have Shared Power	(iii) Deemed to have Sole Power	(iv) Deemed to have Shared
	to Vote or to Direct the Vote	to Vote or to Direct the Vote	to Dispose or to Direct the Disposition	or to
<s></s>	<c></c>	<c></c>	<c></c>	<c></c>
The Mutuelles AXA, AXA	0	0	0	0
AXA Entity or Entities: AXA Investment Managers Paris (France)	4,500	0	4,500	0
AXA Investment Managers UK Ltd	39,000	0	39,000	0
AXA Konzern AG (Germany)	600	0	600	0
AXA Rosenberg Investment Management LLC	74,098	0	145,598	0
AXA Financial, Inc.	0	0	0	0
Subsidiaries:				
AllianceBernstein	7,288,412	0	9,815,868	0
AXA Equitable Life Insurance	126,830	0	134,930	0
-	7,533,44	0	10,140,496	0
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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, ()

- Item 6. Ownership of More than Five Percent on behalf of Another Person. $\ensuremath{\text{N/A}}$
- 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 Investment Managers UK Ltd AXA Konzern AG (Germany)

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) AllianceBernstein 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.

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- Item 8. Identification and Classification of Members of the Group. N/A
- Item 9. Notice of Dissolution 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

of such securities and were not acquired in connection with or as

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 Date: ,February 12, 2010 AXA FINANCIAL, INC.*

/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, 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 12, 2010

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; 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)