## SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

#### SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934 (AMENDMENT NO.: 0 )\*

NAME OF ISSUER:

Axcelis Technologies, Inc.

TITLE OF CLASS OF SECURITIES: Common Stock

CUSIP NUMBER: 054540109

DATE OF EVENT WHICH REQUIRES FILING OF THIS STATEMENT: December 31, 2001

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 the following page(s))

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13G

CUSIP No.: 054540109

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

Vanguard Windsor Funds-Windsor Fund

2. CHECK THE APPROPRIATE [LINE] IF A MEMBER OF A GROUP

A. B. X

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

Delaware

(For questions 5-8, report the number of shares beneficially owned by each reporting person with:)

5. SOLE VOTING POWER

6,953,089

6. SHARED VOTING POWER

-0-

7. SOLE DISPOSITIVE POWER

-0-

8. SHARED DISPOSITIVE POWER

6,953,089

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

6,953,089

- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  $$\rm N/A$$
- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

7.14

12. TYPE OF REPORTING PERSON

IV

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SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

SCHEDULE 13G UNDER THE SECURITIES ACT OF 1934

Check the following [line] if a fee is being paid with this statement n/a

# ITEM 1(A) - NAME OF ISSUER:

Axcelis Technologies, Inc.

ITEM 1(B) - ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES:

55 Cherry Hill Drive, Beverly, MA 01915

ITEM 2(A) - NAME OF PERSON FILING:

Vanguard Windsor Funds-Windsor Fund

ITEM 2(B) - ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE:

100 Vanguard Blvd., Malvern, PA 19355

ITEM 2(C) - CITIZENSHIP:

The Fund is a business trust organized under the laws of the  $% \left( {{{\rm{Commonwealth}}}} \right)$  of Delaware.

ITEM 2(D) - TITLE OF CLASS OF SECURITIES:

Common Stock

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ITEM 2(E) - CUSIP NUMBER
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054540109

ITEM 3 - TYPE OF FILING:

This statement is being filed pursuant to Rule 13d-1. The person filing is an investment company registered under Section 8 of the Investment Company Act.

ITEM 4 - OWNERSHIP:

(a) Amount Beneficially Owned:

6,953,089

(b) Percent of Class:

7.14

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(c) Number of shares as to which such person has:

(i) sole power to vote or direct to vote: 6,953,089

(ii) shared power to vote or direct to vote: -0-

- (iii) sole power to dispose of or to direct the disposition of: \$-0-\$

ITEM 5 - OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS:

Not applicable

ITEM 6 - OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON:

Not applicable

ITEM 7 - IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY:

Not applicable

ITEM 8 - IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF GROUP:

Not applicable

ITEM 9 - NOTICE OF DISSOLUTION OF GROUP:

Not applicable

## 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 purpose 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.

DATE 2-12-2002

BY /S/ JOSEPH F. DIETRICK JOSEPH F. DIETRICK

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