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AXCELIS TECHNOLOGIES INC

Form SC 13G/A

January 26, 2007

SCHEDULE 13G
(Rule 13d-102)

Information to be Included in Statements Filed Pursuant
to Rule 13d-1(b), (c) and (d) and Amendments Thereto Filed
Pursuant to Rule 13d-2.

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

Under the Securities Exchange Act of 1934

(Amendment No. 1)*

Axcelis Technologies, Inc.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

054540109

(CUSIP Number)

December 31, 2006

(Date of Event Which Requires Filing of this Statement)

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

☒ 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

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the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 054540109

13G

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

Artisan Partners Limited Partnership

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
(see Instructions) (a) []
(b) []

Not Applicable

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5 SOLE VOTING POWER

None

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY
EACH
REPORTING
PERSON
WITH

6 SHARED VOTING POWER

None

7 SOLE DISPOSITIVE POWER

None

8 SHARED DISPOSITIVE POWER

None

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

None

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
(see Instructions)

Not Applicable

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

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0.0%

12 TYPE OF REPORTING PERSON
(see Instructions)

IA

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13G

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

Artisan Investment Corporation

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
(see Instructions) (a) []
(b) []

Not Applicable

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Wisconsin

5 SOLE VOTING POWER

None

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY
EACH
REPORTING
PERSON
WITH

6 SHARED VOTING POWER

None

7 SOLE DISPOSITIVE POWER

None

8 SHARED DISPOSITIVE POWER

None

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

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None

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
(see Instructions)

Not Applicable

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

0.0%

12 TYPE OF REPORTING PERSON
(see Instructions)

CO

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13G

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

Andrew A. Ziegler

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
(see Instructions) (a) []
(b) []

Not Applicable

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

U.S.A.

5 SOLE VOTING POWER

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY
EACH
REPORTING
PERSON
WITH

None

6 SHARED VOTING POWER

None

7 SOLE DISPOSITIVE POWER

None

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8 SHARED DISPOSITIVE POWER

None

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

None

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
(see Instructions)

Not Applicable

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

0.0%

12 TYPE OF REPORTING PERSON
(see Instructions)

IN

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13G

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

Carlene Murphy Ziegler

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
(see Instructions)

(a) []

(b) []

Not Applicable

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

U.S.A.

5 SOLE VOTING POWER

None

NUMBER OF

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SHARES 6 SHARED VOTING POWER
BENEFICIALLY OWNED BY
EACH

None

REPORTING

PERSON 7 SOLE DISPOSITIVE POWER
WITH

None

8 SHARED DISPOSITIVE POWER

None

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

None

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
(see Instructions)

Not Applicable

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

0.0%

12 TYPE OF REPORTING PERSON
(see Instructions)

IN

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Item 1(a) Name of Issuer:

Axcelis Technologies, Inc.

Item 1(b) Address of Issuer's Principal Executive Offices:

108 Cherry Hill Drive
Beverly, Massachusetts 01915

Item 2(a) Name of Person Filing:

Artisan Partners Limited Partnership ("Artisan Partners")
Artisan Investment Corporation, the general partner of
Artisan Partners ("Artisan Corp.")
Andrew A. Ziegler
Carlene Murphy Ziegler

Item 2(b) Address of Principal Business Office:

Artisan Partners, Artisan Corp., Mr. Ziegler and Ms. Ziegler
are all located at:

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875 East Wisconsin Avenue, Suite 800
Milwaukee, WI 53202

Item 2(c) Citizenship:

Artisan Partners is a Delaware limited partnership
Artisan Corp. is a Wisconsin corporation
Mr. Ziegler and Ms. Ziegler are U.S. citizens

Item 2(d) Title of Class of Securities:

Common Stock

Item 2(e) CUSIP Number:

054540109

Item 3 Type of Person:

(e) Artisan Partners is an investment adviser registered under section 203 of the Investment Advisers Act of 1940; Artisan Corp. is the General Partner of Artisan Partners; Mr. Ziegler and Ms. Ziegler are the principal stockholders of Artisan Corp.

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Item 4 Ownership (at December 31, 2006):

(a) Amount owned "beneficially" within the meaning of rule 13d-3:

None

(b) Percent of class:

0.0% (based on 101,297,394 shares outstanding as of November 3, 2006)

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

(i) sole power to vote or to direct the vote: None

(ii) shared power to vote or to direct the vote: None

(iii) sole power to dispose or to direct the disposition of: None

(iv) shared power to dispose or to direct disposition of: None

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 [X].

Item 6 Ownership of More than Five Percent on Behalf of Another Person:

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Not Applicable

Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person:

Not Applicable

Item 8 Identification and Classification of Members of the 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 and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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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: January 26, 2007

ARTISAN INVESTMENT CORPORATION
for itself and as general partner of
ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Lawrence A. Totsky*

ANDREW A. ZIEGLER

Andrew A. Ziegler*

CARLENE MURPHY ZIEGLER

Carlene Murphy Ziegler*

*By: /s/ Lawrence A. Totsky

Lawrence A. Totsky
Chief Financial Officer of Artisan
Investment Corporation
Attorney-in-Fact for Andrew A. Ziegler

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Attorney-in-Fact for Carlene Murphy
Ziegler

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Exhibit Index

- Exhibit 1 Joint Filing Agreement dated as of January 26, 2007 by and among Artisan Partners Limited Partnership, Artisan Investment Corporation, Andrew A. Ziegler, and Carlene Murphy Ziegler
- Exhibit 2 Power of Attorney of Andrew A. Ziegler dated as of April 2, 2002
- Exhibit 3 Power of Attorney of Carlene M. Ziegler dated as of April 2, 2002

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EXHIBIT 1

JOINT FILING AGREEMENT

The undersigned hereby agree to the joint filing of the Schedule 13G to which this Agreement is attached.

Dated: January 26, 2007

ARTISAN INVESTMENT CORPORATION
for itself and as general partner of
ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Lawrence A. Totsky*

ANDREW A. ZIEGLER

Andrew A. Ziegler*

CARLENE MURPHY ZIEGLER

Carlene Murphy Ziegler*

*By: /s/ Lawrence A. Totsky

Lawrence A. Totsky
Chief Financial Officer of Artisan
Investment Corporation
Attorney-in-Fact for Andrew A. Ziegler
Attorney-in-Fact for Carlene Murphy
Ziegler

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EXHIBIT 2

EXHIBIT 3

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Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact and agents.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 2 day of April, 2002.

/s/ Carlene Murphy Ziegler

Carlene Murphy Ziegler

STATE OF WISCONSIN)
) SS.
COUNTY OF MILWAUKEE)

I, Kim R. Ruffert, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Carlene Murphy Ziegler, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that she signed and delivered the said instrument as her own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 2 day of April, 2002.

/s/ Kim R. Ruffert

Notary Public