## **AXCELIS TECHNOLOGIES INC** Form SC 13G

January 27, 2006

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. \_\_\_) \*

Axcelis Technologies, Inc.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
054540109
034340103
(CUSIP Number)
December 31, 2005
(Date of Event Which Requires Filing of this Statement)
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).

SEC 1745 (2/92)

Page 1 of 12 pages

CUSIP No. 054	540109	13G	Page 2 of 12 Pages
	EPORTING PERSON ENTIFICATION NO	/ . OF ABOVE PERSON	
Art	isan Partners L	imited Partnership	
2 CHECK THE (see Inst		X IF A MEMBER OF A GROU	
Not	Applicable		(a) [ ] (b) [ ]
3 SEC USE O	NLY		
4 CITIZENSH	IP OR PLACE OF	ORGANIZATION	
Del	aware		
	5 SOLE VOTING	POWER	
	None		
	6 SHARED VOTI	NG POWER	
BENEFICIALLY OWNED BY	7,736,6	00	
EACH REPORTING	7 SOLE DISPOS	ITIVE POWER	
PERSON WITH	None		
	8 SHARED DISP	OSITIVE POWER	
	7,736,6	00	
9 AGGREGATE	AMOUNT BENEFIC	IALLY OWNED BY EACH REE	ORTING PERSON
7,7	36,600		
	IF THE AGGREGA ructions)	TE AMOUNT IN ROW (9) EX	CLUDES CERTAIN SHARES
Not	Applicable		
11 PERCENT O	F CLASS REPRESE	NTED BY AMOUNT IN ROW	9)
7.7	9		
12 TYPE OF R (see Inst	EPORTING PERSON ructions)		
IA			

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1 NAME OF D	EDODETNIC DEDOON			
	EPORTING PERSON .R.S. IDENTIFICA	TION NO. OF ABOVE	PERSON	
Art	isan Investment	Corporation		
	APPROPRIATE BOX ructions)	IF A MEMBER OF A	GROUP	
Not Applicable			(a) [ ] (b) [ ]	
3 SEC USE O	NLY			
4 CITIZENSH	IP OR PLACE OF O	 RGANIZATION		
Wis	consin			
	5 SOLE VOTING	POWER		
NUMBER OF	None			
SHARES	6 SHARED VOTIN	G POWER		
OWNED BY	7,736,60	0		
EACH REPORTING PERSON	7 SOLE DISPOSI	TIVE POWER		
WITH	None			
	8 SHARED DISPO	SITIVE POWER		
	7,736,60	0		
9 AGGREGATE	AMOUNT BENEFICI	ALLY OWNED BY EAC	CH REPORTING PERSON	I
7,7	36,600			
	IF THE AGGREGAT	E AMOUNT IN ROW (	(9) EXCLUDES CERTAI	N SHARES
Not	Applicable			
11 PERCENT O	F CLASS REPRESEN	TED BY AMOUNT IN	ROW (9)	
7.7				
12 TYPE OF R	EPORTING PERSON ructions)			
CO				
		Page 3 of 12		
CUSIP No. 054	540109	13G	Page	e 4 of 12 Pages
1 NAME OF T				
T NAME OF K	EPORTING PERSON			

3

S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

An	drew A. Ziegler		
	E APPROPRIATE BOX IF A MEMBER OF A GROUP tructions)	(a)	
Not Applicable			
3 SEC USE	ONLY		
	HIP OR PLACE OF ORGANIZATION		
U. 	S.A.		
	5 SOLE VOTING POWER  None		
NUMBER OF SHARES	6 SHARED VOTING POWER		
BENEFICIALLY OWNED BY	7,736,600		
EACH REPORTING	7 SOLE DISPOSITIVE POWER		
PERSON WITH	None		
	8 SHARED DISPOSITIVE POWER		
	7,736,600		
9 AGGREGAT	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
7,	736,600		
	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES tructions)		
No	t Applicable		
11 PERCENT	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
7.	7%		
	REPORTING PERSON tructions)		
IN			
	Page 4 of 12		
CUSIP No. 05	4540109 13G Page 5 of 12	Pag	es
1 NAME OF	DEDODTING DEDON		

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

Car	rlene Murphy Ziegler	
	E APPROPRIATE BOX IF A MEMBER OF A GROUP tructions)	
Not	Applicable (a)	[ ]
3 SEC USE (	ONLY	
4 CITIZENSH	HIP OR PLACE OF ORGANIZATION	
U.S	S.A.	
	5 SOLE VOTING POWER	
NUMBER OF	None	
SHARES	6 SHARED VOTING POWER	
OWNED BY	7,736,600	
EACH REPORTING	7 SOLE DISPOSITIVE POWER	
PERSON WITH	None	
	8 SHARED DISPOSITIVE POWER	
	7,736,600	
9 AGGREGATE	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
7,7	736,600	
	K IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES cructions)	
Not	Applicable	
11 PERCENT C	DF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
7.7	7%	
	REPORTING PERSON cructions)	
IN		
	Page 5 of 12	
Item 1(a) N	Name of Issuer:	
	Axcelis Technologies, Inc.	
Item 1(b)	Address of Issuer's Principal Executive Offices:	

108 Cherry Hill Drive Beverly, Massachusetts 01915

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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:

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

(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, 2005):

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

7,736,600

(b) Percent of class:

7.7% (based on 100,523,916 shares outstanding as of November  $4,\ 2005$ )

- (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: 7,736,600
  - (iii) sole power to dispose or to direct the disposition of: None

(iv) shared power to dispose or to direct disposition
 of: 7,736,600

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:

The shares reported herein have been acquired on behalf of discretionary clients of Artisan Partners. Persons other than Artisan Partners are entitled to receive all dividends from, and proceeds from the sale of, those shares. None of those persons, to the knowledge of Artisan Partners, Artisan Corp., Mr. Ziegler or Ms. Ziegler, has an economic interest in more than 5% of the class.

Not Applicable

Item 8 Identification and Classification of Members of the Group:

Not Applicable

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 27, 2006

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

By: Lawrence A. Totsky\*

ANDREW A. ZIEGLER

which this Agreement is attached.

Dated: January 27, 2006

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 Page 8 of 12 Exhibit Index Exhibit 1 Joint Filing Agreement dated as of January 27, 2006 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 Page 9 of 12 EXHIBIT 1 JOINT FILING AGREEMENT The undersigned hereby agree to the joint filing of the Schedule 13G to 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

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Lawrence A. Totsky
Chief Financial Officer of

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

#### POWER OF ATTORNEY

The undersigned, Andrew A. Ziegler, hereby appoints Lawrence A. Totsky, Janet D. Olsen, and Gregory K. Ramirez, and each of them individually, his true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on his behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on 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 2nd day of April, 2002.

/s/ Andrew A. Ziegler

Andrew A. Ziegler

STATE OF WISCONSIN )
)SS.
COUNTY OF MILWAUKEE )

I, Marie V. Glowacki, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Andrew A. 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 he signed and delivered the said instrument as his 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/ Marie V. Glowacki

Notary Public

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EXHIBIT 3

#### POWER OF ATTORNEY

The undersigned, Carlene Murphy Ziegler, hereby appoints Lawrence A. Totsky, Janet D. Olsen, and Gregory K. Ramirez, and each of them individually, her true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on her behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on 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

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