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

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934 (AMENDMENT NO. 5) *

Enzo Biochem, Inc.

	(Name of Issuer)	
	Common Stock	
	(Title of Class of Securities)	
	294100-10-2	
	(CUSIP Number)	
	December 31, 2005	
	(Date of Event Which Requires Filing of this Statemen	 t)
Check the a	appropriate box to designate the rule pursuant to which	this Schedule
	Rule 13d-1(b) Rule 13d-1(c) Rule 13d-1(d)	
person's in securities,	nder of this cover page shall be filled out for a repor- nitial filing on this form with respect to the subject of and for any subsequent amendment containing information the disclosures provided in a prior cover page.	class of
deemed to b Act of 1934	ation required in the remainder of this cover page shall be "filed" for the purpose of Section 18 of the Security ("Act") or otherwise subject to the liabilities of the but shall be subject to all other provisions of the Acces).	ies Exchange at section
	Page 1 of 9 Pages	
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	SCHEDULE 13G	
CUSIP NO. 2	294100-10-2 Page	2 of 9 Pages
	OF REPORTING PERSONS . IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
Citigr	coup Global Markets Inc.	
(2) CHECK	THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUC	
		(a) / / (b) / /
(3) SEC US	SE ONLY	
	ENSHIP OR PLACE OF ORGANIZATION	New York
NUME	BER OF (5) SOLE VOTING POWER	0

BENEFICIALLY	(6) SHARED VOTING POWER	261,928*
OWNED BY		
EACH	(7) SOLE DISPOSITIVE POWER	0
REPORTING		
PERSON	(8) SHARED DISPOSITIVE POWER	261,928*
WITH:		
9) AGGREGATE AMOUNT BE	ENEFICIALLY OWNED BY EACH REPORTING PERSON	261,928*
10) CHECK IF THE AGGRI INSTRUCTIONS) / ,	EGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHA	ARES (SEE
11) PERCENT OF CLASS I	REPRESENTED BY AMOUNT IN ROW (9)	0.8%*
12) TYPE OF REPORTING	PERSON (SEE INSTRUCTIONS)	BD
beneficially owned r completion of the Sa	itigroup Inc. (collectively, the "Reporting more than 5% of the Issuer's securities. Upo ale, the Reporting Persons no longer benefic	n
	of the Issuer's securities.	zarry
	of the Issuer's securities. SCHEDULE 13G	y
Page>	SCHEDULE 13G	3 of 9 Pages
Page> USIP NO. 294100-10-2(1) NAMES OF REPORTING	SCHEDULE 13G Page	-
Page> USIP NO. 294100-10-2(1) NAMES OF REPORTING	SCHEDULE 13G Page G PERSONS FION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	-
Page> USIP NO. 294100-10-2 (1) NAMES OF REPORTING I.R.S. IDENTIFICA:	SCHEDULE 13G Page G PERSONS FION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	3 of 9 Pages
Page> USIP NO. 294100-10-2 (1) NAMES OF REPORTING I.R.S. IDENTIFICA: Citigroup Financia	SCHEDULE 13G Page G PERSONS FION NOS. OF ABOVE PERSONS (ENTITIES ONLY) al Products Inc.	3 of 9 Pages CTIONS)
Page> USIP NO. 294100-10-2 (1) NAMES OF REPORTING I.R.S. IDENTIFICAS Citigroup Financia (2) CHECK THE APPROPRE	SCHEDULE 13G Page G PERSONS FION NOS. OF ABOVE PERSONS (ENTITIES ONLY) al Products Inc.	3 of 9 Pages
Page> USIP NO. 294100-10-2 (1) NAMES OF REPORTING I.R.S. IDENTIFICATE Citigroup Financia (2) CHECK THE APPROPRES (3) SEC USE ONLY	SCHEDULE 13G Page G PERSONS FION NOS. OF ABOVE PERSONS (ENTITIES ONLY) al Products Inc. HATE BOX IF A MEMBER OF A GROUP (SEE INSTRUC	3 of 9 Pages CTIONS) (a) // (b) //
Page> USIP NO. 294100-10-2 (1) NAMES OF REPORTING I.R.S. IDENTIFICATE Citigroup Financia (2) CHECK THE APPROPRES (3) SEC USE ONLY	SCHEDULE 13G Page G PERSONS FION NOS. OF ABOVE PERSONS (ENTITIES ONLY) al Products Inc. HATE BOX IF A MEMBER OF A GROUP (SEE INSTRUC	3 of 9 Pages CTIONS) (a) // (b) //
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SIP NO. 294100-10-2 1) NAMES OF REPORTING I.R.S. IDENTIFICA: Citigroup Financia 2) CHECK THE APPROPR: 3) SEC USE ONLY 4) CITIZENSHIP OR PLA	SCHEDULE 13G Page G PERSONS FION NOS. OF ABOVE PERSONS (ENTITIES ONLY) all Products Inc. HATE BOX IF A MEMBER OF A GROUP (SEE INSTRUC	3 of 9 Pages CTIONS) (a) // (b) // Delaware
age> SIP NO. 294100-10-2 1) NAMES OF REPORTING I.R.S. IDENTIFICA: Citigroup Financia 2) CHECK THE APPROPR: 3) SEC USE ONLY NUMBER OF SHARES	SCHEDULE 13G Page G PERSONS TION NOS. OF ABOVE PERSONS (ENTITIES ONLY) all Products Inc. IATE BOX IF A MEMBER OF A GROUP (SEE INSTRUC	3 of 9 Pages CTIONS) (a) // (b) // Delaware
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Page> USIP NO. 294100-10-2 (1) NAMES OF REPORTING I.R.S. IDENTIFICATE Citigroup Financia (2) CHECK THE APPROPRIMATE (3) SEC USE ONLY NUMBER OF SHARES BENEFICIALLY OWNED BY	SCHEDULE 13G Page G PERSONS FION NOS. OF ABOVE PERSONS (ENTITIES ONLY) all Products Inc. HATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCT ACE OF ORGANIZATION (5) SOLE VOTING POWER (6) SHARED VOTING POWER	3 of 9 Pages CTIONS) (a) // (b) // Delaware
Page> USIP NO. 294100-10-2 (1) NAMES OF REPORTING I.R.S. IDENTIFICA: Citigroup Financia (2) CHECK THE APPROPR: (3) SEC USE ONLY (4) CITIZENSHIP OR PLA NUMBER OF SHARES BENEFICIALLY OWNED BY EACH	SCHEDULE 13G Page G PERSONS FION NOS. OF ABOVE PERSONS (ENTITIES ONLY) all Products Inc. HATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCT ACE OF ORGANIZATION (5) SOLE VOTING POWER (6) SHARED VOTING POWER	3 of 9 Pages CTIONS) (a) // (b) // Delaware 0 261,928*

WITH:

	ENEFICIALLY OWNED BY EACH REPORTING PERSON	261,928*
10) CHECK IF THE AGGRE INSTRUCTIONS) / ,	EGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHA	RES (SEE
1) PERCENT OF CLASS I	REPRESENTED BY AMOUNT IN ROW (9)	0.8%*
2) TYPE OF REPORTING	PERSON (SEE INSTRUCTIONS)	CO
the Issuer's securit	the Reporting Persons beneficially owned more ties. Upon completion of the Sale, the Report lly owned more than 5% of the Issuer's secur	ting Persons
age>		
	SCHEDULE 13G	
JSIP NO. 294100-10-2	Page '	4 of 9 Pages
	G PERSONS TION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Markets Holdings Inc.	
2) CHECK THE APPROPR.	IATE BOX IF A MEMBER OF A GROUP (SEE INSTRUC	TIONS)
		(a) / / (b) / /
(3) SEC USE ONLY		
4) CITIZENSHIP OR PLA	ACE OF ORGANIZATION	New York
	(5) SOLE VOTING POWER	0
	(6) SHARED VOTING POWER	263 , 584*
OWNED BY EACH	(7) SOLE DISPOSITIVE POWER	0
REPORTING		
PERSON	(8) SHARED DISPOSITIVE POWER	263,584*
WITH:		
	ENEFICIALLY OWNED BY EACH REPORTING PERSON	
	EGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHAI	

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		SCHEDULE 13G	
USIP NO. 29	4100-10-2	Ţ	Page 5 of 9 Pages
	F REPORTING PEI	RSONS NOS. OF ABOVE PERSONS (ENTITIES ON)	
Citigro	up Inc.		
(2) CHECK T	HE APPROPRIATE	BOX IF A MEMBER OF A GROUP (SEE INS	STRUCTIONS)
			(a) / / (b) / /
(3) SEC USE			
(4) CITIZEN	SHIP OR PLACE (OF ORGANIZATION	Delaware
NUMBE	 R OF	(5) SOLE VOTING POWER	0
SHAR	ES		
BENEFIC	IALLY	(6) SHARED VOTING POWER	279,468*
OWNED	ВУ		**
EACH		(7) SOLE DISPOSITIVE POWER	
REPORT	ING		
PERSO	N	(8) SHARED DISPOSITIVE POWER	279,468*
WITH			**
			 SON 279,468*
			**
	F THE AGGREGATI	E AMOUNT IN ROW (9) EXCLUDES CERTAIN	N SHARES (SEE
11) PERCENT	OF CLASS REPRI	ESENTED BY AMOUNT IN ROW (9)	0.9%*
 12) TYPE OF	REPORTING PER	GON (SEE INSTRUCTIONS)	НС
the Issue no longer	r's securities beneficially	Reporting Persons beneficially owned. Upon completion of the Sale, the Found more than 5% of the Issuer's the other reporting persons.	Reporting Persons
Page>	1		
tem 1(a).	Name of Iss	uer:	
	Enzo Biocher	a, Inc.	
tem 1(b).		Issuer's Principal Executive Office:	5 :
. , .	60 Executive	-	

Item 2(a). Name of Person Filing: Citigroup Global Markets Inc. ("CGM") Citigroup Financial Products Inc. ("CFP") Citigroup Global Markets Holdings Inc. ("CGM Holdings") Citigroup Inc. ("Citigroup") Item 2(b). Address of Principal Office or, if none, Residence: The address of the principal office of each of CGM, CFP and CGM Holdings is: 388 Greenwich Street New York, NY 10013 The address of the principal office of Citigroup is: 399 Park Avenue New York, NY 10043 Item 2(c). Citizenship or Place of Organization: CGM and CGM Holdings are New York corporations. CFP and Citigroup are Delaware corporations. Item 2(d). Title of Class of Securities: Common Stock CUSIP Number: Item 2(e). 294100-10-2 Page 6 of 9 Pages <Page> If This Statement is Filed Pursuant to Sections 240.13d-1(b) or Item 3. 240.13d-2(b) or (c), Check Whether the Person Filing Is a(n): [X] Broker or dealer registered under Section 15 of the (a) Act (15 U.S.C. 780); [] Bank as defined in Section 3(a)(6) of the Act (b) (15 U.S.C. 78c); (c) [] Insurance company as defined in Section 3(a)(19) of the Act (15 U.S.C. 78c); (d) [] Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8); [] Investment adviser in accordance with Section (e) 240.13d-1(b)(1)(ii)(E); [] Employee benefit plan or endowment fund in accordance (f) with Section 240.13d-1(b)(1)(ii)(F); [X] Parent holding company or control person in accordance (g) with Section 240.13d-1(b)(1)(ii)(G); [] Savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813); [] Church plan that is excluded from the definition of an (i) investment company under Section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3); (j) [] Group, in accordance with Section 240.13d-1(b)(1)(ii)(J). Ownership. (as of December 31, 2005) Item 4. (a) Amount beneficially owned: See item 9 of cover pages (b) Percent of Class: See item 11 of cover pages (c) Number of shares as to which the person has:

> Sole power to vote or to direct the vote: (ii) Shared power to vote or to direct the vote:

(i)

- (iii) Sole power to dispose or to direct the disposition of:
- (iv) Shared power to dispose or to direct the disposition of:

See Items 5-8 of cover pages

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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 [X].

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.

CFP is the sole stockholder of CGM. CGM Holdings is the sole stockholder of CFP. Citigroup is the sole stockholder of CGM Holdings.

Item 8. Identification and Classification of Members of the Group.

Not Applicable.

Item 9. Notice of Dissolution of Group.

Not Applicable.

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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.

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.

Dated: January 5, 2006

CITIGROUP GLOBAL MARKETS INC.

By: /s/ Ali L. Karshan

Name: Ali L. Karshan Title: Assistant Secretary

CITIGROUP FINANCIAL PRODUCTS INC.

By: /s/ Ali L. Karshan

Name: Ali L. Karshan Title: Assistant Secretary CITIGROUP GLOBAL MARKETS HOLDINGS INC.

By: /s/ Ali L. Karshan

Name: Ali L. Karshan Title: Assistant Secretary

CITIGROUP INC.

By: /s/ Ali L. Karshan

Name: Ali L. Karshan Title: Assistant Secretary

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EXHIBIT INDEX TO SCHEDULE 13G

EXHIBIT 1 - -----

Agreement among CGM, CFP, CGM Holdings and Citigroup as to joint filing of Schedule 13G.

EXHIBIT 1

AGREEMENT AS TO JOINT FILING OF SCHEDULE 13G

Each of the undersigned hereby affirms that it is individually eligible to use Schedule 13G, and agrees that this Schedule 13G is filed on its behalf.

Date: January 5, 2006

CITIGROUP GLOBAL MARKETS INC.

By: /s/ Ali L. Karshan

Name: Ali L. Karshan Title: Assistant Secretary

CITIGROUP FINANCIAL PRODUCTS INC.

By: /s/ Ali L. Karshan

Name: Ali L. Karshan Title: Assistant Secretary

CITIGROUP GLOBAL MARKETS HOLDINGS INC.

By: /s/ Ali L. Karshan

Name: Ali L. Karshan Title: Assistant Secretary

CITIGROUP INC.

By: /s/ Ali L. Karshan

Name: Ali L. Karshan Title: Assistant Secretary