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

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934 (AMENDMENT NO. 3) *

Enzo Biochem, Inc.

	(Name of Issuer)	
	Common Stock	
	(Title of Class of Securities)	
	294100-10-2	
	(CUSIP Number)	
	August 31, 2004	
	(Date of Event Which Requires Filing of this Statement	
Check t is file	the appropriate box to designate the rule pursuant to which ed:	this Schedule
/ /	Rule 13d-1(b) Rule 13d-1(c) Rule 13d-1(d)	
person' securit	emainder of this cover page shall be filled out for a report s initial filing on this form with respect to the subject c ries, and for any subsequent amendment containing informatio alter the disclosures provided in a prior cover page.	lass of
deemed Act of of the	formation required in the remainder of this cover page shall to be "filed" for the purpose of Section 18 of the Securiti 1934 ("Act") or otherwise subject to the liabilities of tha Act but shall be subject to all other provisions of the Act Notes).	es Exchange t section
	Page 1 of 8 Pages	
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	SCHEDULE 13G	
CUSIP N	io. 294100-10-2 Page	2 of 8 Pages
	MES OF REPORTING PERSONS R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
Sm	nith Barney Fund Management LLC	
(2) CH	ECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUC	TIONS)
		(a) / / (b) / /
(3) SE	CC USE ONLY	
(4) CI	TIZENSHIP OR PLACE OF ORGANIZATION	Delaware
	NUMBER OF (5) SOLE VOTING POWER	0

	BENEFICIALLY	(6) SHARED VOTING POWER	2,367,905*
	OWNED BY		
	EACH	(7) SOLE DISPOSITIVE POWER	0
	REPORTING		
	PERSON	(8) SHARED DISPOSITIVE POWER	2,367,905*
	WITH:		
(9)	AGGREGATE AMOUNT BENE	FICIALLY OWNED BY EACH REPORTING PER	SON 2,367,905*
 (10)	CHECK IF THE AGGREGA' INSTRUCTIONS) //	TE AMOUNT IN ROW (9) EXCLUDES CERTAI	N SHARES (SEE
(11)		RESENTED BY AMOUNT IN ROW (9)	7.7%*
(12)	TYPE OF REPORTING PE	RSON (SEE INSTRUCTIONS)	IA
	cludes shares for whinership. See Item 4(a	ch the reporting person disclaims be	neficial
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(1) (2) (3)	P NO. 294100-10-2 NAMES OF REPORTING P. I.R.S. IDENTIFICATION Citigroup Global Mar CHECK THE APPROPRIAT: SEC USE ONLY CITIZENSHIP OR PLACE NUMBER OF SHARES BENEFICIALLY	ERSONS N NOS. OF ABOVE PERSONS (ENTITIES ON the control of the con	LY) STRUCTIONS) (a) // (b) // New York 0 3,878,274*
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(10)	CHECK IF THE AGGRI	EGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHA /	ARES (SEE
(11)	PERCENT OF CLASS	REPRESENTED BY AMOUNT IN ROW (9)	12.6%*
(12)	TYPE OF REPORTING	PERSON (SEE INSTRUCTIONS)	НС
* In		which the reporting person disclaims benefic $4\left(a\right)$.	
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(1)	NAMES OF REPORTING I.R.S. IDENTIFICA	G PERSONS TION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Citigroup Inc.		
(2)	CHECK THE APPROPR	IATE BOX IF A MEMBER OF A GROUP (SEE INSTRUC	CTIONS)
			(a) / / (b) / /
(3)	SEC USE ONLY		
(4)	CITIZENSHIP OR PL	ACE OF ORGANIZATION	Delaware
	NUMBER OF	(5) SOLE VOTING POWER	0
	SHARES		
			3,878,274*
	OWNED BY		_
	EACH	(7) SOLE DISPOSITIVE POWER	0
	REPORTING		
	PERSON	(8) SHARED DISPOSITIVE POWER	3,878,274* **
	WITH:		
(9)	AGGREGATE AMOUNT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON	3,878,274* **
(10)	CHECK IF THE AGGRI	EGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHA	ARES (SEE
	PERCENT OF CLASS	12.6%*	
(12)	TYPE OF REPORTING	PERSON (SEE INSTRUCTIONS)	НС

^{*} Includes shares for which the reporting person disclaims beneficial ownership. See Item 4(a).

** Includes shares held by the other reporting persons.

Item 1(a). Name of Issuer: Enzo Biochem, Inc. Item 1(b). Address of Issuer's Principal Executive Offices: 60 Executive Blvd. Farmingdale, New York 11735 Item 2(a). Name of Person Filing: Smith Barney Fund Management LLC ("SB Fund") Citigroup Global Markets Holdings Inc. ("CGM Holdings") Citigroup Inc. ("Citigroup") Item 2(b). Address or Principal Office or, if none, Residence: The address of the principal office of SB Fund is: 333 West 34th Street New York, NY 10001 The address of the principal office of 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 Holdings is a New York corporation. SB Fund is a Delaware limited liability company. Citigroup is a Delaware corporation. Item 2(d). Title of Class of Securities: Common Stock Item 2(e). CUSIP Number: 294100-10-2 Page 5 of 8 Pages <Page> Item 3. If this Statement is Filed Pursuant to Sections 240.13d-1(b) or 240.13d-2(b) or (c), Check Whether the Person Filing is a(n): [] Broker or dealer registered under section 15 of the Act (15 U.S.C. 780); [] Bank as defined in section 3(a)(6) of the Act (b) (15 U.S.C. 78c); [] Insurance company as defined in section 3(a)(19) of (c) the Act (15 U.S.C. 78c); [] 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 (q) with Section 240.13d-1(b)(1)(ii)(G); (See Exhibit 2) [] 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 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).

Item 4. Ownership. (as of August 31, 2004)

- (a) Amount beneficially owned: See item 9 of cover pages
 - (Includes shares for which the reporting person disclaims beneficial ownership.)
- (b) Percent of Class: See item 11 of cover pages
- (c) Number of shares as to which the person has:
 - (i) sole power to vote or to direct the vote:
 - (ii) shared power to vote or to direct the vote:
 - (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 [].

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.

 CGM Holdings is the sole member of SB Fund. 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: September 10, 2004

By: /s/ Thomas C. Mandia

Name: Thomas C. Mandia Title: Secretary

CITIGROUP GLOBAL MARKETS HOLDINGS INC.

By: /s/ Serena D. Moe

Name: Serena D. Moe

Title: Assistant Secretary

CITIGROUP INC.

By: /s/ Serena D. Moe

Name: Serena D. Moe Title: Assistant Secretary

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EXHIBIT INDEX TO SCHEDULE 13G

EXHIBIT 1

Agreement among SB Fund, CGM Holdings and Citigroup as to joint filing of Schedule $13\,\mathrm{G}$

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: September 10, 2004

SMITH BARNEY FUND MANAGEMENT LLC

By: /s/ Thomas C. Mandia

Name: Thomas C. Mandia

Title: Secretary

CITIGROUP GLOBAL MARKETS HOLDINGS INC.

By: /s/ Serena D. Moe

Name: Serena D. Moe Title: Assistant Secretary

CITIGROUP INC.

By: /s/ Serena D. Moe

Name: Serena D. Moe Title: Assistant Secretary