BRUSH ENGINEERED MATERIALS INC Form SC 13G/A October 08, 2004

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

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934 (AMENDMENT NO. 7)*

Brush Engineered Materials Inc.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
117421-10-7
(CUSIP Number)
September 30, 2004
(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).

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SCHEDULE 13G

(1) NAMES OF REPORTING E		
I.R.S. IDENTIFICATIO	ON NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
Smith Barney Fund Ma	nagement LLC	
(2) CHECK THE APPROPRIAT	E BOX IF A MEMBER OF A GROUP (SEE INSTRUCT	IONS)
		(a) / / (b) / /
(3) SEC USE ONLY		
(4) CITIZENSHIP OR PLACE	OF ORGANIZATION	Delaware
	(5) SOLE VOTING POWER	0
SHARES		
BENEFICIALLY	(6) SHARED VOTING POWER	2,050,700*
OWNED BY		
EACH	(7) SOLE DISPOSITIVE POWER	0
REPORTING		
PERSON	(8) SHARED DISPOSITIVE POWER	2,050,700*
WITH:		
(9) AGGREGATE AMOUNT BENE	FICIALLY OWNED BY EACH REPORTING PERSON	2,050,700*
(10) CHECK IF THE AGGREGATINSTRUCTIONS) / /	TE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHAR	ES (SEE
(11) PERCENT OF CLASS REP	PRESENTED BY AMOUNT IN ROW (9)	10.8%*
(12) TYPE OF REPORTING PE	RSON (SEE INSTRUCTIONS)	IA

 $\ ^{\star}$ Includes shares for which the reporting person disclaims beneficial

²

ownership. See Item 4(a).

SCHEDULE 13G

	Pages
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Citigroup Global Markets Holdings Inc. (2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a (b)	
(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a (b	
(a (b	
(b	
(3) SEC USE ONLY	
(4) CITIZENSHIP OR PLACE OF ORGANIZATION Ne	w Yor
NUMBER OF (5) SOLE VOTING POWER	
SHARES	
BENEFICIALLY (6) SHARED VOTING POWER 2,58	 7 , 834
OWNED BY	
EACH (7) SOLE DISPOSITIVE POWER	
REPORTING	
PERSON (8) SHARED DISPOSITIVE POWER 2,58	7,834°
WITH:	
(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,58	 7 , 834
(10) CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SE INSTRUCTIONS) / /	Ε
(11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	 13.7%
(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	

* Includes shares for whownership. See Item 4(ich the reporting person disclaims bene a).	eficial
	SCHEDULE 13G	
CUSIP NO. 117421-10-7	E	Page 4 of 8 Pages
	PERSONS ON NOS. OF ABOVE PERSONS (ENTITIES ONLY	······································
Citigroup Inc.		
(2) CHECK THE APPROPRIA	TE BOX IF A MEMBER OF A GROUP (SEE INST	RUCTIONS)
		(a) / / (b) / /
(3) SEC USE ONLY		
(4) CITIZENSHIP OR PLAC	CE OF ORGANIZATION	Delaware
NUMBER OF	(5) SOLE VOTING POWER	
SHARES		
BENEFICIALLY	(6) SHARED VOTING POWER	2,587,959* **
OWNED BY		
EACH	(7) SOLE DISPOSITIVE POWER	0
REPORTING		
PERSON	(8) SHARED DISPOSITIVE POWER	2,587,959* **
WITH:		
(9) AGGREGATE AMOUNT BEN	EFICIALLY OWNED BY EACH REPORTING PERSO	ON 2,587,959* **
	GATE AMOUNT IN ROW (9) EXCLUDES CERTAIN	

(11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 13.7%* ______ (12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) HC. * Includes shares for which the reporting person disclaims beneficial ownership. See Item 4(a). $\star\star$ Includes shares held by the other reporting persons. Item 1(a). Name of Issuer: Brush Engineered Materials Inc. Item 1(b). Address of Issuer's Principal Executive Offices: 17876 St. Clair Avenue Cleveland, Ohio 44110 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 of 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:

117421-10-7

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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):
	(a) [] Broker or dealer registered under Section 15 of the Act (15 U.S.C. 780);
	(b) [] Bank as defined in Section 3(a)(6) of the Act (15 U.S.C. 78c);
	<pre>(c) [] Insurance company as defined in Section 3(a)(19) of</pre>
	(d) [] Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
	(e) [X] Investment adviser in accordance with Section 240.13d-1(b)(1)(ii)(E);
	<pre>(f) [] Employee benefit plan or endowment fund in accordance with Section 240.13d-1(b)(1)(ii)(F);</pre>
	(g) [X] Parent holding company or control person in accordance with Section 240.13d-1(b)(1)(ii)(G);
	(h) [] Savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
	(i) [] 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 September 30, 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: October 8, 2004

SMITH BARNEY FUND MANAGEMENT LLC

By: /s/ Thomas C. Mandia

Name: Thomas C. Mandia Title: Secretary

CITIGROUP GLOBAL MARKETS HOLDINGS INC.

By: /s/ David C. Goldberg

Name: David C. Goldberg 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 $13\,\mathrm{G}$