BRUSH ENGINEERED MATERIALS INC Form SC 13G/A February 14, 2005

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

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934 (AMENDMENT NO. 8)*

| Brush Engineered Materials Inc. |
|---|
| (Name of Issuer) |
| Common Stock |
| (Title of Class of Securities) |
| 117421-10-7 |
| (CUSIP Number) |
| December 31, 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 RE | PORTING PERSON | S | |
|------------------|------------------|--|--------------------|
| I.R.S. IDEN | NTIFICATION NOS | . OF ABOVE PERSONS (ENTITIES ONLY) | |
| Smith Barne | ey Fund Manageme | ent LLC | |
| (2) CHECK THE A | APPROPRIATE BOX | IF A MEMBER OF A GROUP (SEE INSTRUCTI | ONS) |
| | | | (a) / / (b) / / |
| (3) SEC USE ONI | | | |
| (4) CITIZENSHIE | OR PLACE OF O | RGANIZATION | Delaware |
| NUMBER OF | | SOLE VOTING POWER | 0 |
| SHARES | | | |
| BENEFICIALI | .Y (6) | | 2,087,400* |
| OWNED BY | | | |
| EACH | (7) | SOLE DISPOSITIVE POWER | 0 |
| REPORTING | | | |
| PERSON | (8) | SHARED DISPOSITIVE POWER | 2,087,400* |
| WITH: | | | |
| (9) AGGREGATE AN | MOUNT BENEFICIA: | LLY OWNED BY EACH REPORTING PERSON | 2,087,400* |
| (10) CHECK IF TH | | OUNT IN ROW (9) EXCLUDES CERTAIN SHARE | S (SEE |
| (11) PERCENT OF | CLASS REPRESEN | TED BY AMOUNT IN ROW (9) | 10.9%* |
| (12) TYPE OF REE | ORTING PERSON | (SEE INSTRUCTIONS) | IA |

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

²

ownership. See Item 4(a).

SCHEDULE 13G

| (1) NAMES OF REPORTING PERSONS 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) (b) (c) (c) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e | | *************************************** | |
|---|----------------------------|---|--------------------|
| 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) (b) (c) (c) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e | CUSIP NO. 117421-10-7 | | Page 3 of 8 Pages |
| (2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) (b) (b) (c) (c) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e | | | |
| (a) (b) / (3) SEC USE ONLY (4) CITIZENSHIP OR PLACE OF ORGANIZATION New Young Shares BENEFICIALLY (6) SHARED VOTING POWER 2,482,3° OWNED BY EACH (7) SOLE DISPOSITIVE POWER REPORTING PERSON (8) SHARED DISPOSITIVE POWER 2,482,3° | Citigroup Global Mark | ets Holdings Inc. | |
| (4) CITIZENSHIP OR PLACE OF ORGANIZATION NUMBER OF (5) SOLE VOTING POWER SHARES BENEFICIALLY (6) SHARED VOTING POWER 2,482,3° OWNED BY EACH (7) SOLE DISPOSITIVE POWER REPORTING PERSON (8) SHARED DISPOSITIVE POWER 2,482,3° | (2) CHECK THE APPROPRIATE | BOX IF A MEMBER OF A GROUP (SEE IN | STRUCTIONS) |
| (4) CITIZENSHIP OR PLACE OF ORGANIZATION New You NUMBER OF (5) SOLE VOTING POWER SHARES BENEFICIALLY (6) SHARED VOTING POWER 2,482,3° OWNED BY EACH (7) SOLE DISPOSITIVE POWER REPORTING PERSON (8) SHARED DISPOSITIVE POWER 2,482,3° | | | (a) / / (b) / / |
| NUMBER OF (5) SOLE VOTING POWER SHARES BENEFICIALLY (6) SHARED VOTING POWER 2,482,3° OWNED BY EACH (7) SOLE DISPOSITIVE POWER REPORTING PERSON (8) SHARED DISPOSITIVE POWER 2,482,3° | (3) SEC USE ONLY | | |
| NUMBER OF (5) SOLE VOTING POWER SHARES BENEFICIALLY (6) SHARED VOTING POWER 2,482,3° OWNED BY EACH (7) SOLE DISPOSITIVE POWER REPORTING PERSON (8) SHARED DISPOSITIVE POWER 2,482,3° | | | |
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| NUMBER OF (5) SOLE VOTING POWER SHARES BENEFICIALLY (6) SHARED VOTING POWER 2,482,3° OWNED BY EACH (7) SOLE DISPOSITIVE POWER REPORTING PERSON (8) SHARED DISPOSITIVE POWER 2,482,3° | | | |
| BENEFICIALLY (6) SHARED VOTING POWER 2,482,3° OWNED BY EACH (7) SOLE DISPOSITIVE POWER REPORTING PERSON (8) SHARED DISPOSITIVE POWER 2,482,3° | NUMBER OF | | (|
| BENEFICIALLY (6) SHARED VOTING POWER 2,482,3° OWNED BY EACH (7) SOLE DISPOSITIVE POWER REPORTING PERSON (8) SHARED DISPOSITIVE POWER 2,482,3° | SHARES | | |
| EACH (7) SOLE DISPOSITIVE POWER REPORTING PERSON (8) SHARED DISPOSITIVE POWER 2,482,3° | BENEFICIALLY | | 2,482,371 |
| EACH (7) SOLE DISPOSITIVE POWER REPORTING PERSON (8) SHARED DISPOSITIVE POWER 2,482,3 | OWNED BY | | |
| PERSON (8) SHARED DISPOSITIVE POWER 2,482,3° | EACH | | (|
| PERSON (8) SHARED DISPOSITIVE POWER 2,482,3 | REPORTING | | |
| WITH: | PERSON | | 2,482,371* |
| | WITH: | | |
| (9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,482,3° | (9) AGGREGATE AMOUNT BENEF | CICIALLY OWNED BY EACH REPORTING PER | .son 2,482,371* |
| | | | |
| | | | |
| 10) CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) / / | | E AMOUNT IN ROW (9) EXCLUDES CERTAI | N SHARES (SEE |
| (11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 12.9 | | | 12.9%* |
| (12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) | (12) TYPE OF REPORTING PER | | нс |

| | cludes shares for whi nership. See Item 4(a | ch the reporting person disclaims benefic | ial |
|---------|--|---|--------------------|
| | | SCHEDULE 13G | |
| CUSI | P NO. 117421-10-7 | Page | e 4 of 8 Pages |
| (1) | NAMES OF REPORTING F | PERSONS ON NOS. OF ABOVE PERSONS (ENTITIES ONLY) | |
| | Citigroup Inc. | | |
| (2) | CHECK THE APPROPRIAT | TE BOX IF A MEMBER OF A GROUP (SEE INSTRUC | CTIONS) |
| | | | (a) / / (b) / / |
| (3) | SEC USE ONLY | | |
| (4) | CITIZENSHIP OR PLACE | OF ORGANIZATION | Delaware |
| | NUMBER OF SHARES | (5) SOLE VOTING POWER | 0 |
| | BENEFICIALLY OWNED BY | (6) SHARED VOTING POWER | 2,482,496* |
| | EACH | (7) SOLE DISPOSITIVE POWER | 0 |
| | REPORTING | | |
| | PERSON WITH: | (8) SHARED DISPOSITIVE POWER | 2,482,496* ** |
| (9) | AGGREGATE AMOUNT BENE | EFICIALLY OWNED BY EACH REPORTING PERSON | |
| (10) | | ATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHA | |

(11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 12.9%* ______ (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: SB Fund is a Delaware limited liability company. CGM Holdings is a New York corporation. 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); |
| | (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); |
| | (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 December 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: February 4, 2005

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 $13\,\mathrm{G}$