

SCHEDULE 13G

Amendment No. 0

BRUSH ENGINEERED MATERIALS INC

Common Stock
Cusip #117421107

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Item 1: Reporting Person - FMR LLC

Item 4: Delaware

Item 5: 0

Item 6: 0

Item 7: 1,200,000

Item 8: 0

Item 9: 1,200,000

Item 11: 5.932%

Item 12: HC

Cusip #117421107

Item 1: Reporting Person - Edward C. Johnson 3d

Item 4: United States of America

Item 5: 0

Item 6: 0

Item 7: 1,200,000

Item 8: 0

Item 9: 1,200,000

Item 11: 5.932%

Item 12: IN

SCHEDULE 13G - TO BE INCLUDED IN

STATEMENTS

FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)

Item 1(a). Name of Issuer:

BRUSH ENGINEERED MATERIALS

INC

Item 1(b). Name of Issuer's Principal Executive Offices:

6070 Parkland Blvd
Mayfield Heights, OH 44124

Item 2(a). Name of Person Filing:

FMR LLC

**Item 2(b). Address or Principal Business Office or, if None,
Residence:**

82 Devonshire Street, Boston,

Massachusetts 02109

Item 2(c). Citizenship:

Not applicable

Item 2(d). Title of Class of Securities:

Common Stock

Item 2(e). CUSIP Number:

117421107

Item 3. This statement is filed pursuant to Rule 13d-1(b) or 13d-2(b)

and the person filing, FMR LLC, is a parent holding company in accordance with Section 240.13d-1(b)(ii)(G). (Note: See Item 7).

Item 4. Ownership

(a)	Amount Beneficially Owned:	1,200,000
(b)	Percent of Class:	5.932%
(c)	Number of shares as to which such person has:	
(i)	sole power to vote or to direct the vote:	0
(ii)	shared power to vote or to direct the vote:	0
(iii)	sole power to dispose or to	

direct the disposition of: 1,200,000

(iv) shared power to dispose or to direct the disposition of: 0

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.

Various persons have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the Common Stock of BRUSH ENGINEERED MATERIALS INC. The interest of one person, Fidelity Growth Company Fund, an investment company registered under the Investment Company Act of 1940, in the Common Stock of BRUSH ENGINEERED MATERIALS INC, amounted to 1,200,000 shares or 5.932% of the total outstanding Common Stock at December 31, 2009.

Item 7. Identification and Classification of the Subsidiary Which

Acquired the Security Being Reported on By the Parent Holding Company.

See attached Exhibit A.

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

Not applicable. See attached Exhibit A.

Item 9. Notice of Dissolution of Group.

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 in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such 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.

February 12, 2010
Date

/s/ Scott C. Goebel
Signature

Scott C. Goebel
Duly authorized under Power of Attorney
effective as of June 1, 2008 by and on behalf of FMR LLC
and its direct and indirect subsidiaries

**SCHEDULE 13G - TO BE INCLUDED IN
STATEMENTS
FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)**

Pursuant to the instructions in Item 7 of Schedule 13G,
Fidelity Management & Research Company ("Fidelity"), 82

Devonshire Street, Boston, Massachusetts 02109, a wholly-owned subsidiary of FMR LLC and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, is the beneficial owner of 1,200,000 shares or 5.932% of the Common Stock outstanding of BRUSH ENGINEERED MATERIALS INC ("the Company") as a result of acting as investment adviser to various investment companies registered under Section 8 of the Investment Company Act of 1940.

The ownership of one investment company, Fidelity Growth Company Fund, amounted to 1,200,000 shares or 5.932% of the Common Stock outstanding. Fidelity Growth Company Fund has its principal business office at 82 Devonshire Street, Boston, Massachusetts 02109.

Edward C. Johnson 3d and FMR LLC, through its control of Fidelity, and the funds each has sole power to dispose of the 1,200,000 shares owned by the Funds.

Members of the family of Edward C. Johnson 3d, Chairman of FMR LLC, are the predominant owners, directly or through trusts, of Series B voting common shares of FMR LLC, representing 49% of the voting power of FMR LLC. The Johnson family group and all other Series B shareholders have entered into a shareholders' voting agreement under which all Series B voting common shares will be voted in accordance with the majority vote of Series B voting common shares. Accordingly, through their ownership of voting common shares and the execution of the shareholders' voting agreement, members of the Johnson family may be deemed, under the Investment Company Act of 1940, to form a controlling group with respect to FMR LLC.

Neither FMR LLC nor Edward C. Johnson 3d, Chairman of FMR LLC, has the sole power to vote or direct the voting of the shares owned directly by the Fidelity Funds, which power resides with the Funds' Boards of Trustees. Fidelity carries out the voting of the shares under written guidelines established by the Funds' Boards of Trustees.

**SCHEDULE 13G - TO BE INCLUDED IN
STATEMENTS**

**FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)
RULE 13d-1(f)(1) AGREEMENT**

The undersigned persons, on February 12, 2010, agree and consent to the joint filing on their behalf of this Schedule 13G in connection with their beneficial ownership of the Common Stock of BRUSH ENGINEERED MATERIALS INC at December 31, 2009.

FMR LLC

By /s/ Scott C. Goebel
Scott C. Goebel
Duly authorized under Power of Attorney effective as
of June 1, 2008, by and on behalf of FMR LLC and its direct
and indirect subsidiaries

Edward C. Johnson 3d

*By /s/ Scott C. Goebel
Scott C. Goebel
Duly authorized under Power of Attorney effective as
of June 1, 2008, by and on behalf of Edward C. Johnson 3d*

Fidelity Management & Research Company

*By /s/ Scott C. Goebel
Scott C. Goebel
Senior V.P. and General Counsel*

Fidelity Growth Company Fund

*By /s/ Scott C. Goebel
Scott C. Goebel
Secretary*