SUPER MICRO COMPUTER, INC.

Filed by

FMR LLC

FORM SC 13G/A

(Amended Statement of Ownership)

Filed 06/10/09

Address	980 ROCK AVENUE SAN JOSE, CA 95131
Telephone	408-503-8000
CIK	0001375365
Symbol	SMCI
SIC Code	0000 - Unknown
Fiscal Year	06/30

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SCHEDULE 13G

Amendment No. 1
SUPER MICRO COMPUTER INC
Common Stock
Cusip #86800U104

Cusip #86800U104

Item 1: Reporting Person - FMR LLC
Item 4: Delaware
Item 5: 88,861
Item 6: 0
Item 7: 4,230,712
Item 8: 0
Item 9: 4,230,712
Item 11: 12.193%
Item 12: HC

Cusip #86800U104
Item 1: Reporting Person - Edward C. Johnson 3d
Item 4: United States of America
Item 5: 0
Item 6: 0
Item 7: 4,230,712
Item 8: 0
Item 9: 4,230,712
Item 11: 12.193%
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:

SUPER MICRO COMPUTER INC

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

980 Rock Avenue
San Jose, CA 95131
USA

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:

86800U104

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

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        (a)     Amount Beneficially Owned:      4,230,712

        (b)     Percent of Class:       12.193%

        (c)     Number of shares as to which such
person has:

        (i)     sole power to vote or to direct
the vote:       88,861

        (ii)    shared power to vote or to
direct the vote:        0

        (iii)   sole power to dispose or to
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direct the disposition of: 4,230,712

(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 SUPER MICRO COMPUTER INC. The interest of the Fidelity Low Priced Stock Fund, an investment company registered under the Investment Company Act of 1940, in the Common Stock of SUPER MICRO COMPUTER INC, amounted to 2,724,950 shares or 7.853% of the total outstanding Common Stock at May 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.

June 09, 2009
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 4,141,851 shares or 11.937% of the Common Stock outstanding of SUPER MICRO COMPUTER 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 Low Priced Stock Fund, amounted to 2,724,950 shares or 7.853% of the Common Stock outstanding. Fidelity Low Priced Stock 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 4,141,851 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.

Pyramis Global Advisors Trust Company ("PGATC"), 900 Salem Street, Smithfield, Rhode Island, 02917, an indirect wholly-owned subsidiary of FMR LLC and a bank as defined in Section 3(a)(6) of the Securities Exchange Act of 1934, is the beneficial owner of 88,861 shares or 0.256% of the outstanding Common Stock of the SUPER MICRO COMPUTER INC as a result of its serving as investment manager of institutional accounts owning such shares.

Edward C. Johnson 3d and FMR LLC, through its control of Pyramis Global Advisors Trust Company, each has sole dispositive power over 88,861 shares and sole power to vote or to direct the voting of 88,861 shares of Common Stock owned by the institutional accounts managed by PGATC as reported above.

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 June 09, 2009, 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 SUPER MICRO COMPUTER INC at May 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 Low Priced Stock Fund

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