UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the

Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): April 24, 2006

ATHEROS COMMUNICATIONS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction 0-50534 (Commission File Number) 77-0485570 (IRS Employer

of incorporation)

Identification No.)

5480 Great America Parkway, Santa Clara, California 95054

 $(Address\ of\ principal\ executive\ offices)\ (Zip\ Code)$

Registrant s telephone number, including area code: (408) 773-5200

Not Applicable

(Former name or former address, if changed since last report)

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Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- " Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- " Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- " Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- " Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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Item 8.01. Other Events.

On April 24, 2006, the Registrant issued a press release announcing that it had signed a definitive agreement to acquire ZyDAS Technology Corporation, a privately held Taiwan-based fabless integrated circuit design company. The full text of the Registrant s press release is filed herewith as Exhibit 99.1.

Item 9.01. Financial Statements and Exhibits.

Exhibit Description

99.1 Press Release dated April 24, 2006.

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SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: April 27, 2006

ATHEROS COMMUNICATIONS, INC.

By: /s/ Jack R. Lazar Name: Jack R. Lazar

Title: Vice President and Chief Financial Officer

EXHIBIT INDEX

Exhibit No.

DescriptionPress Release dated April 24, 2006. 99.1

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