

Chu Hing
Form 4
April 12, 2010

FORM 4

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

Check this box
if no longer
subject to
Section 16.
Form 4 or
Form 5
obligations
may continue.
See Instruction
1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF
SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

OMB APPROVAL

OMB
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(Print or Type Responses)

1. Name and Address of Reporting Person *
Chu Hing

(Last) (First) (Middle)

C/O ATHEROS
COMMUNICATIONS, INC., 5480
GREAT AMERICA PARKWAY

(Street)

SANTA CLARA., CA 95054

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading
Symbol

ATHEROS COMMUNICATIONS
INC [ATHR]

3. Date of Earliest Transaction
(Month/Day/Year)
04/12/2010

4. If Amendment, Date Original
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

____ Director ____ 10% Owner
X Officer (give title below) ____ Other (specify below)
Vice President Operations

6. Individual or Joint/Group Filing(Check
Applicable Line)
X Form filed by One Reporting Person
____ Form filed by More than One Reporting
Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	04/12/2010		M		5,218	A	\$ 8.89 52,274
Common Stock	04/12/2010		M		15,182	A	\$ 10.37 67,456
Common Stock	04/12/2010		S ⁽¹⁾		21,400	D	\$ 39.5 46,056

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

**Persons who respond to the collection of
information contained in this form are not**

SEC 1474
(9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)
				Code	V (A) (D)	Date Exercisable Expiration Date	Title Amount or Number of Shares
Employee Stock Options (right to buy)	\$ 8.89	04/12/2010		M	5,218	<u>(2)</u> 06/23/2015	Common Stock 5,218
Employee Stock Options (right to buy)	\$ 10.37	04/12/2010		M	15,182	<u>(3)</u> 08/25/2015	Common Stock 15,812

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Chu Hing
C/O ATHEROS COMMUNICATIONS, INC.
5480 GREAT AMERICA PARKWAY
SANTA CLARA,, CA 95054

Vice President Operations

Signatures

Bruce P. Johnson,
Attorney-in-fact 04/12/2010

__Signature of Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

(1) The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan.

(2)

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25% of the options became exercisable on 6/24/2006, and the remaining options became exercisable in 36 equal monthly installments beginning on 7/24/2006.

- (3) 25% of the options became exercisable on 8/19/2006, and the remaining options became exercisable in 36 equal monthly installments beginning on 9/19/2006.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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