

Hislop Colin
Form 4
September 23, 2010

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287
Expires: January 31, 2005
Estimated average burden hours per response... 0.5

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
Hislop Colin

2. Issuer Name and Ticker or Trading Symbol
Anthera Pharmaceuticals Inc
[ANTH]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)
09/21/2010

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
Sr. VP, Cardiovasc. Prod.

C/O ANTHERA
PHARMACEUTICALS,
INC., 25801 INDUSTRIAL
BOULEVARD, SUITE B

(Street)

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

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

HAYWARD, CA 94545

(City) (State) (Zip)

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 (A) 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)
				(A) or (D) Price			
Common Stock	09/21/2010		M	14,683 A \$ 0.26	15,183	I ⁽¹⁾	By The Hislop-Burton Family Trust
Common Stock					45,841	D	

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 required to respond unless the form

SEC 1474 (9-02)

displays a currently valid OMB control number.

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)	8. Amount or Number of Shares
Stock Option (right to buy)	\$ 0.26	09/21/2010		M	14,683	(2) 01/23/2017	Common Stock	14,683

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Hislop Colin C/O ANThERA PHARMACEUTICALS, INC. 25801 INDUSTRIAL BOULEVARD, SUITE B HAYWARD, CA 94545			Sr. VP, Cardiovasc. Prod.	

Signatures

/s/ Mitzi Chang, by power of attorney for Colin Hislop,
M.D. 09/23/2010

__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 Reporting Person exercised the Stock Options in his own name and plans to transfer them to The Hislop-Burton Family Trust, his family trust.
This Stock Option, representing a right to purchase a total of 145,130 shares of common stock of the Issuer, was immediately exercisable on the date of the grant. However, all unvested shares underlying this Stock Option were subject to a right of repurchase held by the Issuer, which lapsed according to the following vesting schedule: 25% of the total number of shares vest on the first anniversary of the December 1, 2005 vesting start date (the "Vesting Start Date") and pro-rata monthly thereafter. This Stock Option became completely vested on the fourth anniversary of the Vesting Start Date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.