

Fritsch Ursula
 Form 3
 February 23, 2010

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF 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 *

Â Fritsch Ursula
 (Last) (First) (Middle)

2. Date of Event Requiring Statement

(Month/Day/Year)
 02/23/2010

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

4. Relationship of Reporting Person(s) to Issuer

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

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

(Street)

(Check all applicable)

Director 10% Owner
 Officer Other
 (give title below) (specify below)
 VP, Glob. Reg. and Compliance

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

HAYWARD,Â CAÂ 94545

(City) (State) (Zip)

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)

2. Amount of Securities Beneficially Owned (Instr. 4)

3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)

4. Nature of Indirect Beneficial Ownership (Instr. 5)

Common Stock

55,592

D Â

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

SEC 1473 (7-02)

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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

1. Title of Derivative Security (Instr. 4)

2. Date Exercisable and Expiration Date (Month/Day/Year)

3. Title and Amount of Securities Underlying Derivative Security

4. Conversion or Exercise

5. Ownership Form of

6. Nature of Indirect Beneficial Ownership

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	Date Exercisable	Expiration Date	(Instr. 4) Title	Amount or Number of Shares	Price of Derivative Security	Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	(Instr. 5)
Series A-1 Convertible Preferred Stock	Â (1)	Â (1)	Common Stock	17,523	\$ (2)	D	Â
Stock Option (right to buy)	Â (3)	02/18/2019	Common Stock	23,364	\$ 1.51	D	Â
Stock Option (right to buy)	06/27/2006	06/27/2016	Common Stock	1,752	\$ 0.14	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Fritsch Ursula C/O ANTHERA PHARMACEUTICALS, INC. 25801 INDUSTRIAL BOULEVARD, SUITE B HAYWARD, CA 94545	Â	Â	Â VP, Glob. Reg. and Compliance	Â

Signatures

/s/ Mitzi Chang, by power
of attorney for Ursula
Fritsch, Pharm. D

02/23/2010

__Signature of Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 5(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 Series A-1 Convertible Preferred Stock is convertible on a one-for-one basis at any time at the holder's election and has no expiration date.

(2) Not applicable.

(3) 100% of the shares subject to this Stock Option are immediately exercisable. However, all unvested shares underlying this Stock Option are subject to a right of repurchase held by the Issuer, which will lapse according to the following vesting schedule: in equal monthly installments over a four-year period beginning from the August 12, 2008 vesting start date (the "Vesting Start Date"). This Stock Option is completely vested on the fourth anniversary of the Vesting Start Date.

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Remarks:

Exhibit List

Exhibit 24.1 - Power of Attorney

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.