Santel Donald J Form 3 February 23, 2010

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

OMB APPROVAL

OMB Number:

3235-0104

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF **SECURITIES**

January 31, Expires: 2005

Estimated average burden hours per

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

response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting Person *

A Santel Donald J

(Last) (First) (Middle) Statement

(Month/Day/Year)

02/23/2010

2. Date of Event Requiring 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

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

Form filed by More than One

Filed(Month/Day/Year)

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

(Street)

(Check all applicable)

10% Owner Other

X Director Officer (give title below) (specify below)

HAYWARD, 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)

Ownership Form:

4. Nature of Indirect Beneficial

Person

Reporting Person

Ownership (Instr. 5)

Direct (D) or Indirect (I) (Instr. 5)

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 (Instr. 4)

4. 5. Ownership Conversion or Exercise Form of Derivative

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

Derivative Security:

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	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Security	Direct (D) or Indirect (I) (Instr. 5)	
Stock Option (right to buy)	(1)	10/24/2017	Common Stock	14,602	\$ 0.26	D	Â
Stock Option (right to buy)	(2)	02/18/2019	Common Stock	5,841	\$ 1.51	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships				
	Director	10% Owner	Officer	Other	
Santel Donald J C/O ANTHERA PHARMACEUTICALS, INC. 25801 INDUSTRIAL BOULEVARD, SUITE B HAYWARD, CA 94545	ÂX	Â	Â	Â	

Signatures

/s/ Mitzi Chang, by power of attorney for Donald J. Santel

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).
- 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: 25% of the total number of shares vest on the first anniversary of the October 24, 2007 vesting start date (the "Vesting Start Date") and pro-rata monthly thereafter. This Stock Option is completely vested on the fourth anniversary of the Vesting Start Date.
- 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.

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