CRAIG STEWART Form 4

September 18, 2009

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

if no longer subject to Section 16. Form 4 or Form 5

Check this box

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 * **CRAIG STEWART**

(First) (Middle) (Last)

C/O STEMCELLS, INC., 3155 PORTER DRIVE

(Street)

(State)

09/15/2009

Symbol

(Month/Day/Year)

Filed(Month/Day/Year)

3.

Code V

A

OMB APPROVAL

OMB Number:

3235-0287

Expires:

January 31, 2005

Estimated average burden hours per

response...

0.5

5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Issuer

STEMCELLS INC [STEM]

3. Date of Earliest Transaction

09/15/2009

4. If Amendment, Date Original

(Check all applicable)

Director 10% Owner X_ Officer (give title Other (specify

below) below) SVP, Development & Operations

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

(D) or

Indirect (I)

(Instr. 4)

I

Person

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

PALO ALTO, CA 94304

(City)

Common

Common

Stock

Stock

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) any

(Zip)

(Month/Day/Year)

Transaction(A) or Disposed of Code (D) (Instr. 8)

(Instr. 3, 4 and 5)

93,333

(A) Amount (D) Price

Α

\$0

4. Securities Acquired

Following Reported Transaction(s) (Instr. 3 and 4)

3,835

5. Amount of

Beneficially

Securities

Owned

93,333 (1) D

By 401(k) Plan (2)

Beneficial

Ownership

(Instr. 4)

6. Ownership 7. Nature of

Form: Direct Indirect

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

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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. Transactio Code (Instr. 8)	5. Number of or 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 A Underlying S (Instr. 3 and 4	Securitie
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amour or Number of Sha
Stock Option (right to purchase)	\$ 1.71	09/15/2009		A	35,000	09/15/2010(3)	09/15/2019	Common Stock	35,00

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

CRAIG STEWART C/O STEMCELLS, INC. 3155 PORTER DRIVE PALO ALTO, CA 94304

SVP, Development & Operations

Signatures

/s/ Ken Stratton, attorney-in-fact 09/18/2009

**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) Restricted stock units, with 1/4 vesting on each of the four anniversaries following the grant.
- (2) Shares held in 401(k) account, in accordance with issuer's employer-match policies.
- (3) Employee stock option; vests 1/4 on the first anniversary of the grant and 1/48 per month thereafter.

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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