

WEISSMAN IRVING  
Form 5  
February 12, 2010

**FORM 5**

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).  
Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL 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

1. Name and Address of Reporting Person \*  
**WEISSMAN IRVING**  
  
(Last) (First) (Middle)

2. Issuer Name and Ticker or Trading Symbol  
**STEMCELLS INC [STEM]**

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

**C/O STEMCELLS, INC., 3155 PORTER DRIVE**  
  
(Street)

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
**12/31/2009**

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

6. Individual or Joint/Group Reporting

(check applicable line)

**PALO ALTO, CA 94304**  
  
(City) (State) (Zip)

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 (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|---|
| Common Stock                    | 12/30/2009                           | 12/30/2009   | G <sup>(1)</sup>               | 154,320 D   | \$ 0 339,416 <sup>(2)</sup>  | D  | ∆   |
| Common Stock                    | 12/30/2009                           | 12/30/2009   | G <sup>(3)</sup>               | 85,032 A  | \$ 0 190,111   | I  | family trust <sup>(4)</sup>                           |

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

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SEC 2270 (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) | 8. Price of Derivative Security (Instr. 5) | 9. Price of Underlying Security (Instr. 5) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|
|  |  |                                      |  |                                | (A) (D)   | Date Exercisable Expiration Date                         | Title   | Amount or Number of Shares                 |  |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |         |       |
|--|---------------|-----------|---------|-------|
|  | Director      | 10% Owner | Officer | Other |
| WEISSMAN IRVING<br>C/O STEMCELLS, INC.<br>3155 PORTER DRIVE<br>PALO ALTO, CA 94304 | Â X           | Â         | Â       | Â     |

## Signatures

/s/ Ken Stratton,  
attorney-in-fact  
02/12/2010  
\*\*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) This transaction involved gifts of securities by the reporting person to his children and grandchildren, either directly or to trusts established for their benefit, as well as to certain charitable organizations.
- (2) Includes 10,000 restricted stock units, vesting 100% on October 1, 2010, the one year anniversary of the grant.  
This transaction involved gifts of securities by the reporting person to trusts established for the benefit of either a family member of his or a minor who shares the reporting person's household. The reporting person disclaims beneficial ownership of the shares held in these trusts, and this report should not be deemed an admission that the reporting person is the beneficial owner of these shares for purposes of Section 16 or for any other purpose.
- (4) 190,111 shares held in trust as to which Dr. Weissman disclaims beneficial ownership.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.