Instruction 1(b)

FORM 5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
vvasiniigtori,	D.C.	20343

ANNUAL	STATEMENT	OF CH	IANGES I	N BENE	FICIAL			
OWNEDCHID								

OMB APP	ROVAL							
OMB Number:	3235-0362							
Estimated average burden								

Form 3		OWNEROI III							ho	hours per response: 1.0							
Form 4	Transactions R	eported.	File	ed pursuant to or Section					ities Excha ompany Ac								
1. Name and Address of Reporting Person* WEISSMAN IRVING				2. Issuer Name and Ticker or Trading Symbol STEMCELLS INC [STEM]						5. Relationship of F (Check all applicab X Director					Owner		
	(Fir MCELLS, I RTER DRIV	NC.	Middle)		3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2008								Office below		(give title		r (specify v)
(Street) PALO AI	то са	A 9	04304 Zip)	4. If Amen								6. Indiv Line) X	,				son
	· · ·		e I - Non-Deriv	/ative Sec	uritie	es Ac	quire	ed, Di	sposed	of, or	Benefici	ally (Owne	d			
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date,		3. Transaction Code (Instr.					or Disposed	5. Amount of Securities Beneficially Owned at e		es ally	Own ly Forn	nership I m: Direct I	7. Nature of ndirect Beneficial Ownership	
			(Month Day) Tear)		9,		Amour	t	(A) or (D)	Price	l: Y	Issuer's Fiscal Year (Instr. 3 and 4)			ect (I) (Instr. 4)	
Common	Stock		12/31/2008	12/31/20	08	G ⁽⁾	1)	130),326	D	\$0.00	0 683,736 D					
Common	Stock		12/31/2008	12/31/20	08	G (2)	80	,892	A	\$0.00	00 1 105079 1 1 1			family rusts ⁽³⁾		
		Та	ble II - Derivat (e.g., p	tive Secur uts, calls,									vned				
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)	of Deriv Secu Acqu (A) o Dispe	Number 6. Date Exercisal Expiration Date (Month/Day/Year guired) or sposed (D) Str. 3, 4 d 5)		n Date ay/Year)		e and int of rities rlying ative rity (Instr. 3) Amount or Number of Shares	Deriv Secu	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	/e es ally ng d tion(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	

Explanation of Responses:

- 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. 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.
- 3. 105,079 shares held in trust as to which he disclaims beneficial ownership.

Remarks:

Irving Weissman by Ken Stratton, Attorney-in-Fact

01/07/2009

** Signature of Reporting Person

Date

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

- * 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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 Number.