

Carnell Clint
 Form 4
 February 14, 2011

FORM 4 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).

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 *
 Carnell Clint

2. Issuer Name and Ticker or Trading Symbol
 SOLTA MEDICAL INC [SLTM]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 C/O SOLTA MEDICAL,
 INC., 25881 INDUSTRIAL
 BOULEVARD

3. Date of Earliest Transaction
 (Month/Day/Year)
 02/10/2011

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

(Street)
 HAYWARD, CA 94545

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

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

(City) (State) (Zip)

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 Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D) Price			
Common Stock	02/10/2011		A	116,400 (1)	\$ 0 183,515 (2)	D	

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

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

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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)
Performance Restricted Stock Units	(3)	02/10/2011		A	116,400	(3) (3)	Common Stock 116,400

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Carnell Clint C/O SOLTA MEDICAL, INC. 25881 INDUSTRIAL BOULEVARD HAYWARD, CA 94545			Chief Operating Officer	

Signatures

/s/ John F. Glenn, attorney
in fact 02/14/2011
**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).
 - Deemed acquired pursuant to a grant of restricted stock units. The restricted stock units vest in three annual installments as follows:
 - (1) February 10, 2012, February 10, 2013 and February 10, 2014. Vesting shares of the issuer's common stock will be will be delivered to the reporting person on each such date.
 - (2) Includes 1,535 shares acquired under the issuer's employee stock purchase plan on May 17, 2010 and 1,715 shares acquired on November 15, 2010.
 - Deemed acquired pursuant to a grant of performance restricted stock units. The performance restricted stock units may be earned in
 - (3) annual installment based on the issuer's stock price performance over each of the three calendar years 2011, 2012 and 2013. Upon vesting, shares of the issuer's common stock will be delivered to the reporting person.
 - (4) N/A

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.