

Rubinstein Linda M
 Form 4
 December 15, 2006

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 *
 Rubinstein Linda M

2. Issuer Name and Ticker or Trading Symbol
 Solexa, Inc. [SLXA]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 25861 INDUSTRIAL BLVD.

3. Date of Earliest Transaction (Month/Day/Year)
 12/13/2006

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

VP & Chief Financial Officer

(Street)

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

HAYWARD, CA 94545

(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 Indirect Beneficial Ownership (Instr. 4)
			Code	V Amount (A) or (D) Price			
Common Stock	12/13/2006		M	50,000 A \$ 6.11	50,000	D	
Common Stock	12/13/2006		S	50,000 D \$ 12.6618	0	D	
Common Stock	12/13/2006		M	7,812 A \$ 5.97	7,812	D	
Common Stock	12/13/2006		S	7,812 D \$ 12.6618	0	D	
Common Stock	12/13/2006		M	6,067 A \$ 8.6	6,067	D	

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Common Stock	12/13/2006	S	6,067	D	\$ 12.6618	0	D
Common Stock	12/13/2006	M	7,812	A	\$ 5.97	7,812	D
Common Stock	12/13/2006	S	7,812	D	\$ 12.6618	0	D

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

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.

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(9-02)

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 Security (Instr. 3 and 4)
					V	(A) (D)	Date Exercisable	Expiration Date	
Non-Qualified Stock Option (right to buy)	\$ 5.97	12/13/2006		M		7,812	10/06/2005	09/06/2015	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 5.97	12/13/2006		M		7,812	10/06/2005	09/06/2015	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 6.11	12/13/2006		M		50,000	03/22/2006	06/03/2015	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 8.6	12/13/2006		M		6,067	03/02/2006	02/02/2016	Common Stock

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Rubinstein Linda M 25861 INDUSTRIAL BLVD.			VP & Chief Financial Officer	

HAYWARD, CA 94545

Signatures

Linda M.

Rubinstein

12/13/2006

__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).

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

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