

Solexa, Inc.
 Form 4
 December 12, 2006

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
 Expires: January 31, 2005
 Estimated average burden hours per response... 0.5

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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 *
 Lundberg Peter

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

HAYWARD, CA 94545

(City) (State) (Zip)

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

3. Date of Earliest Transaction
 (Month/Day/Year)
 12/11/2006

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 VP & Chief Technical Officer

6. Individual or Joint/Group Filing(Check Applicable Line)
 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 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	12/11/2006		M		2,500	A	\$ 6.11
					2,500		
Common Stock	12/11/2006		S		2,500	D	\$ 12.97
					0		
Common Stock	12/11/2006		M		2,000	A	\$ 6.11
					2,000		
Common Stock	12/11/2006		S		2,000	D	\$ 12.93
					0		
Common Stock	12/11/2006		M		8,000	A	\$ 6.11
					8,000		

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Common Stock	12/11/2006	S	8,000	D	\$ 12.9281	0	D
Common Stock	12/11/2006	M	2,500	A	\$ 6.11	2,500	D
Common Stock	12/11/2006	S	2,500	D	\$ 12.97	0	D
Common Stock	12/11/2006	M	1,500	A	\$ 6.11	1,500	D
Common Stock	12/11/2006	S	1,500	D	\$ 12.96	0	D
Common Stock	12/11/2006	M	4,500	A	\$ 5.97	4,500	D
Common Stock	12/11/2006	S	4,500	D	\$ 12.9182	0	D
Common Stock	12/11/2006	M	8,000	A	\$ 5.97	8,000	D
Common Stock	12/11/2006	S	8,000	D	\$ 12.914	0	D
Common Stock	12/11/2006	M	3,000	A	\$ 8.6	3,000	D
Common Stock	12/11/2006	S	3,000	D	\$ 12.95	0	D
Common Stock	12/11/2006	M	3,250	A	\$ 8.6	3,250	D
Common Stock	12/11/2006	S	3,250	D	\$ 12.95	0	D

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

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SEC 1474
(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)
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					Date Exercisable	Expiration Date	Title	Amo or Num of Share
			Code	V (A) (D)				
Non-Qualified Stock Option (right to buy)	\$ 5.97	12/11/2006	M	4,500	10/06/2005	09/06/2015	Common Stock	4,5
Non-Qualified Stock Option (right to buy)	\$ 5.97	12/11/2006	M	8,000	10/06/2005	09/06/2015	Common Stock	8,0
Non-Qualified Stock Option (right to buy)	\$ 6.11	12/11/2006	M	2,500	03/10/2006	06/03/2015	Common Stock	2,5
Non-Qualified Stock Option (right to buy)	\$ 6.11	12/11/2006	M	2,000	03/10/2006	06/03/2015	Common Stock	2,0
Non-Qualified Stock Option (right to buy)	\$ 6.11	12/11/2006	M	8,000	03/10/2006	06/03/2015	Common Stock	8,0
Non-Qualified Stock Option (right to buy)	\$ 6.11	12/11/2006	M	2,500	03/10/2006	06/03/2015	Common Stock	2,5
Non-Qualified Stock Option (right to buy)	\$ 6.11	12/11/2006	M	1,500	03/10/2006	06/03/2015	Common Stock	1,5
Non-Qualified Stock Option (right to buy)	\$ 8.6	12/11/2006	M	3,000	03/02/2006	02/02/2016	Common Stock	3,0
Non-Qualified Stock Option (right to buy)	\$ 8.6	12/11/2006	M	3,250	03/02/2006	02/02/2016	Common Stock	3,2

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Lundberg Peter 25861 INDUSTRIAL BLVD. HAYWARD, CA 94545			VP & Chief Technical Officer	

Signatures

Peter Lundberg 12/11/2006

**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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