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SOLAZYME INC

Reported by

WOLFSON JONATHAN S

FORM 4

(Statement of Changes in Beneficial Ownership)

Filed 04/10/12 for the Period Ending 04/09/12

Address	225 GATEWAY BLVD. S. SAN FRANCISCO, CA 94080
Telephone	650-780-4777
CIK	0001311230
Symbol	SZYM
SIC Code	2860 - Industrial Organic Chemicals
Industry	Oil & Gas Operations
Sector	Energy
Fiscal Year	12/31

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FORM 4

[ ] Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

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

OMB APPROVAL
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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(f) of the Investment Company Act of 1940

1. Name and Address of Reporting Person *	2. Issuer Name **and** Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)
Wolfson Jonathan S (Last) (First) (Middle)	**SOLAZYME INC [SZYM]**	__ **X** __ Director _____ 10% Owner
SOLAZYME, INC., 225 GATEWAY BOULEVARD (Street)	3. Date of Earliest Transaction (MM/DD/YYYY) **4/9/2012**	__ **X** __ Officer (give title below) _____ Other (specify below) **Chief Executive Officer**
SOUTH SAN FRANCISCO, CA 94080 (City) (State) (Zip)	4. If Amendment, Date Original Filed (MM/DD/YYYY)	6. Individual or Joint/Group Filing (Check Applicable Line) _ **X** _ 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. Trans. Date	2A. Deemed Execution Date, if any	3. Trans. 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	**4/9/2012**		**S** (1)		**32500**	**D**	**$13.8758** (2)	**3274289**	**I**	**by Trust** (3)

Table II - Derivative Securities Beneficially Owned (*e.g.* , puts, calls, warrants, options, convertible securities)

1. Title of Derivate Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Trans. Date	3A. Deemed Execution Date, if any	4. Trans. 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		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

(1) The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on September 4, 2011 and amended on December 9, 2011.

(2) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from $13.63 to $14.47, inclusive. The reporting person undertakes to provide to Solazyme, Inc., any security holder of Solazyme, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.

(3) The Jonathan S. Wolfson Revocable Trust dated August 12, 2010.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Wolfson Jonathan S **SOLAZYME, INC.** **225 GATEWAY BOULEVARD**	**X**		**Chief Executive Officer**	

SOUTH SAN FRANCISCO, CA 94080				

Signatures

/s/ Rob Maynes, as attorney-in-fact	**4/10/2012**
** 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.

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