INTERWEST PARTNERS VII L P Form SC 13G/A February 13, 2009

> OMB APPROVAL OMB Number: 3235-0145 Expires: February 28, 2010 Estimated average burden hours per response...10.4

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549
SCHEDULE 13G/A
Under the Securities Exchange Act of 1934
(AMENDMENT NO 5)*
METABASIS THERAPEUTICS, INC

(Name of Issuer)

Common Stock

(Title of Class of Securities)

59101M 10 5

(CUSIP Number)

December 31, 2008

(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- o Rule 13d-1(c)
- b Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person s initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 (Act) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

Page 1 of 16 Pages

CUSIP No. 59101M 10 5 13G Page of 16 Pages NAME OF REPORTING PERSONS 1 InterWest Partners VII, LP I.R.S. IDENTIFICATION NO(S). OF ABOVE PERSON(S) (ENTITIES ONLY) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 California **SOLE VOTING POWER** 5 NUMBER OF 4,029,455 **SHARES** SHARED VOTING POWER **BENEFICIALLY** OWNED BY 0 REPORTING SOLE DISPOSITIVE POWER 7 **PERSON** WITH 4,029,455 SHARED DISPOSITIVE POWER 8 0 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

4,029,455

10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES:
	o
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	11.4%
12	TYPE OF REPORTING PERSON
	PN

CUSIP No. 59101M 10 5 13G Page of 16 Pages NAME OF REPORTING PERSONS 1 InterWest Investors VII, LP I.R.S. IDENTIFICATION NO(S). OF ABOVE PERSON(S) (ENTITIES ONLY) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 California **SOLE VOTING POWER** 5 NUMBER OF 192,907 **SHARES** SHARED VOTING POWER **BENEFICIALLY** 6 OWNED BY 0 REPORTING SOLE DISPOSITIVE POWER 7 **PERSON** WITH 192,907 SHARED DISPOSITIVE POWER 8 0 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

192,907

10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES:
	o
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	0.55%
12	TYPE OF REPORTING PERSON
	PN

CUSIP No. 59101M 10 5 13G Page of 16 Pages NAME OF REPORTING PERSONS InterWest Management Partners VII, LLC (the General Partner of InterWest Partners VII, LP and 1 InterWest Investors VII, LP) I.R.S. IDENTIFICATION NO(S). OF ABOVE PERSON(S) (ENTITIES ONLY) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 California **SOLE VOTING POWER** 5 NUMBER OF 4,222,362 SHARED VOTING POWER **SHARES** 6 BENEFICIALLY OWNED BY 0 **REPORTING** SOLE DISPOSITIVE POWER 7 **PERSON** WITH 4,222,362 SHARED DISPOSITIVE POWER 8 0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

4,	222	,3	62

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW	(9)) EXCLUDES	CERTAIN SHARES
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10

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

11.9%

TYPE OF REPORTING PERSON

12

OO

CUSIP No. 59101M 10 5 13G Page of 16 Pages NAME OF REPORTING PERSONS 1 Harvey B. Cash (a Managing Director of InterWest Management Partners VII, LLC) I.R.S. IDENTIFICATION NO(S). OF ABOVE PERSON(S) (ENTITIES ONLY) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **United States SOLE VOTING POWER** 5 NUMBER OF 50,000 **SHARES** SHARED VOTING POWER **BENEFICIALLY** 6 OWNED BY 4,222,362 REPORTING SOLE DISPOSITIVE POWER 7 **PERSON** WITH 50,000 SHARED DISPOSITIVE POWER 8 4,222,362 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

4,272,362

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES:

10

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

12.1%

TYPE OF REPORTING PERSON

12

IN

Neither the filing of this statement on Schedule 13G nor any of its contents shall be deemed to constitute an admission by Harvey B. Cash that he is the beneficial owner of any of the Common Stock referred to herein for purposes of Section 13(d) of the Securities Exchange Act of 1934, as amended, or for any other purpose, and such beneficial ownership is expressly disclaimed, except to the extent of his pecuniary interest.

CUSIP No. 59101M 10 5 13G Page of 16 Pages NAME OF REPORTING PERSONS 1 Philip T. Gianos (a Managing Director of InterWest Management Partners VII, LLC) I.R.S. IDENTIFICATION NO(S). OF ABOVE PERSON(S) (ENTITIES ONLY) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **United States SOLE VOTING POWER** 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** 6 OWNED BY 4,222,362 REPORTING SOLE DISPOSITIVE POWER 7 **PERSON** WITH 0 SHARED DISPOSITIVE POWER 8 4,222,362 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

4,222,362

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES:

10

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

11.9%

TYPE OF REPORTING PERSON

12

IN

Neither the filing of this statement on Schedule 13G nor any of its contents shall be deemed to constitute an admission by Philip T. Gianos that he is the beneficial owner of any of the Common Stock referred to herein for purposes of Section 13(d) of the Securities Exchange Act of 1934, as amended, or for any other purpose, and such beneficial ownership is expressly disclaimed, except to the extent of his pecuniary interest.

CUSIP No. 59101M 10 5 13G Page 7 of 16 Pages NAME OF REPORTING PERSONS 1 W. Scott Hedrick (a Managing Director of InterWest Management Partners VII, LLC) I.R.S. IDENTIFICATION NO(S). OF ABOVE PERSON(S) (ENTITIES ONLY) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **United States SOLE VOTING POWER** 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** 6 OWNED BY 4,222,362 REPORTING SOLE DISPOSITIVE POWER 7 **PERSON** WITH 0 SHARED DISPOSITIVE POWER 8 4,222,362 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

4,222,362

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES:

10

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

11.9%

TYPE OF REPORTING PERSON

12

IN

Neither the filing of this statement on Schedule 13G nor any of its contents shall be deemed to constitute an admission by W. Scott Hedrick that he is the beneficial owner of any of the Common Stock referred to herein for purposes of Section 13(d) of the Securities Exchange Act of 1934, as amended, or for any other purpose, and such beneficial ownership is expressly disclaimed, except to the extent of his pecuniary interest.

CUSIP No. 59101M 10 5 13G Page of 16 Pages NAME OF REPORTING PERSONS 1 W. Stephen Holmes III (a Managing Director of InterWest Management Partners VII, LLC) I.R.S. IDENTIFICATION NO(S). OF ABOVE PERSON(S) (ENTITIES ONLY) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **United States SOLE VOTING POWER** 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** 6 OWNED BY 4,222,362 REPORTING SOLE DISPOSITIVE POWER 7 **PERSON** WITH 0 SHARED DISPOSITIVE POWER 8 4,222,362 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

4,222,362

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES:

10

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

11.9%

TYPE OF REPORTING PERSON

12

IN

Neither the filing of this statement on Schedule 13G nor any of its contents shall be deemed to constitute an admission by W. Stephen Holmes III that he is the beneficial owner of any of the Common Stock referred to herein for purposes of Section 13(d) of the Securities Exchange Act of 1934, as amended, or for any other purpose, and such beneficial ownership is expressly disclaimed, except to the extent of his pecuniary interest.

CUSIP No. 59101M 10 5 13G Page of 16 Pages NAME OF REPORTING PERSONS 1 Gilbert H. Kliman (a Managing Director of InterWest Management Partners VII, LLC) I.R.S. IDENTIFICATION NO(S). OF ABOVE PERSON(S) (ENTITIES ONLY) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **United States SOLE VOTING POWER** 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** 6 OWNED BY 4,222,362 REPORTING SOLE DISPOSITIVE POWER 7 **PERSON** WITH 0 SHARED DISPOSITIVE POWER 8 4,222,362 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

4,222,362

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES:

10

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

11.9%

TYPE OF REPORTING PERSON

12

IN

Neither the filing of this statement on Schedule 13G nor any of its contents shall be deemed to constitute an admission by Gilbert H. Kliman that he is the beneficial owner of any of the Common Stock referred to herein for purposes of Section 13(d) of the Securities Exchange Act of 1934, as amended, or for any other purpose, and such beneficial ownership is expressly disclaimed, except to the extent of his pecuniary interest.

CUSIP No. 59101M 10 5 13G Page 10 of 16 Pages NAME OF REPORTING PERSONS 1 Arnold L. Oronsky (a Managing Director of InterWest Management Partners VII, LLC) I.R.S. IDENTIFICATION NO(S). OF ABOVE PERSON(S) (ENTITIES ONLY) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **United States SOLE VOTING POWER** 5 NUMBER OF 56,667 **SHARES** SHARED VOTING POWER 6 **BENEFICIALLY** OWNED BY 4,222,362 REPORTING SOLE DISPOSITIVE POWER 7 **PERSON** WITH 56,667 SHARED DISPOSITIVE POWER 8 4,222,362 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

4,279,029

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES:

10

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

12.1%

TYPE OF REPORTING PERSON

12

IN

Neither the filing of this statement on Schedule 13G nor any of its contents shall be deemed to constitute an admission by Arnold L. Oronsky that he is the beneficial owner of any of the Common Stock referred to herein for purposes of Section 13(d) of the Securities Exchange Act of 1934, as amended, or for any other purpose, and such beneficial ownership is expressly disclaimed, except to the extent of his pecuniary interest.

CUSIP No. 59101M 10 5 13G Page 11 of 16 Pages NAME OF REPORTING PERSONS 1 Thomas L. Rosch (a Managing Director of InterWest Management Partners VII, LLC) I.R.S. IDENTIFICATION NO(S). OF ABOVE PERSON(S) (ENTITIES ONLY) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **United States SOLE VOTING POWER** 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** 6 OWNED BY 4,222,362 REPORTING SOLE DISPOSITIVE POWER 7 **PERSON** WITH 0 SHARED DISPOSITIVE POWER 8 4,222,362 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9

4,222,362

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES:

10

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

11.9%

TYPE OF REPORTING PERSON

12

IN

Neither the filing of this statement on Schedule 13G nor any of its contents shall be deemed to constitute an admission by Thomas L. Rosch that he is the beneficial owner of any of the Common Stock referred to herein for purposes of Section 13(d) of the Securities Exchange Act of 1934, as amended, or for any other purpose, and such beneficial ownership is expressly disclaimed, except to the extent of his pecuniary interest.

ITEM 1.

(a) NAME OF ISSUER: Metabasis Therapeutics, Inc.

(b) ADDRESS OF ISSUER S PRINCIPAL EXECUTIVE OFFICE:

11119 North Torrey Pines Road, La Jolla, CA 92037

ITEM 2.

(a) NAME OF PERSON(S) FILING:

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InterWest Partners VII, LP ( IWP VII )
InterWest Investors VII, LP ( II VII )
InterWest Management Partners VII, LLC ( IMP VII )
Harvey B. Cash ( Cash )
Philip T. Gianos ( Gianos )
W. Scott Hedrick ( Hedrick )
W. Stephen Holmes III ( Holmes )
Gilbert H. Kliman ( Kliman )
Arnold L. Oronsky ( Oronsky )
Thomas L. Rosch ( Rosch )
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(b) ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE:

2710 Sand Hill Road, Second Floor, Menlo Park, CA 94025

(c) CITIZENSHIP/PLACE OF ORGANIZATION:

IWP VII: California II VII: California IMP VII: California **United States** Cash: **United States** Gianos: Hedrick: **United States** Holmes: **United States** Kliman: **United States** Oronsky: **United States** Rosch: **United States**

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(d) TITLE OF CLASS OF SECURITIES: Common Stock

(e) CUSIP NUMBER: 59101M 10 5 ITEM 3. NOT APPLICABLE.

ITEM 4. OWNERSHIP.

		IWP VII (1)	II VII (2)	IMP VII (3)
Beneficial Ownership	4,029,455	192,907	4,222,362	
Percentage of Class		11.4%	0.55%	11.9%
Sole Voting Power		4,029,455	192,907	4,222,362
Shared Voting Power		0	0	0
Sole Dispositive Power		4,029,455	192,907	4,222,362
Shared Dispositive Power		0	0	0
		Cash (4)	Gianos (4)	Hedrick (4)
Beneficial Ownership		4,272,362	4,222,362	4,222,362
Percentage of Class		12.1%	11.9%	11.9%
Sole Voting Power		50,000	0	0
Shared Voting Power		4,222,362	4,222,362	4,222,362
Sole Dispositive Power		50,000	0	0
Shared Dispositive Power		4,222,362	4,222,362	4,222,362
	Holmes (4)	Kliman (4)	Oronsky (4)**	Rosch (4)
Beneficial Ownership	4,222,362	4,222,362	4,279,029	4,222,362
Percentage of Class	11.9%	11.9%	12.1%	11.9%
Sole Voting Power	0	0	56,667	0
Shared Voting Power	4,222,362	4,222,362	4,222,362	4,222,362
Sole Dispositive Power	0	0	56,667	0
Shared Dispositive Power	4,222,362	4,222,362	4,222,362	4,222,362

- ** Includes 56,667 shares issuable to Oronsky pursuant to outstanding options exercisable within 60 days of December 31, 2008.
- (1) Includes
 312,173 shares
 issuable
 pursuant to
 warrant exercise
 after
 October 16,
 2008.

- (2) Includes 14,937 shares issuable pursuant to warrant exercise after October 16, 2008.
- (3) IMP VII is the general partner of IWP VII and II VII.
- (4) Cash, Gianos, Hedrick, Holmes, Kliman, Oronsky, and Rosch are Managing Directors of IMP VII.

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ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS.

Not applicable.

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON.

Under certain circumstances set forth in the limited liability company operating agreement of IMP VII, the members of such limited liability company have the right to receive dividends from, or the proceeds from the sale of, the common stock of Issuer beneficially owned by such limited liability company.

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY.

Not applicable.

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP.

No reporting person is a member of a group as defined in section 240.13d-1(b)(1)(iii)(H) of the Act.

ITEM 9. NOTICE OF DISSOLUTION OF THE GROUP.

Not applicable.

ITEM 10. CERTIFICATION.

Not applicable.

EXHIBITS

Joint Filing Statement attached as Exhibit A.

Page 14 of 16 Pages

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 13, 2009

INTERWEST PARTNERS VII, LP

By: /s/ Harvey B. Cash By: InterWest Management Partners VII, LLC

its General Partner

Name: Harvey B. Cash

By: /s/ Philip T. Gianos By: /s/ W. Stephen Holmes

Name: Philip T. Gianos Managing Director

By: /s/ W. Scott Hedrick INTERWEST INVESTORS VII, LP

Name: W. Scott Hedrick

By: /s/ W. Stephen Holmes By: InterWest Management Partners VII, LLC

its General Partner

Name: W. Stephen Holmes

III

By: /s/ W. Stephen Holmes

By:/s/ Gilbert H. Kliman Managing Director

Name: Gilbert H. Kliman

INTERWEST MANAGEMENT PARTNERS VII,

LLC

By: /s/ Arnold L. Oronsky

Name: Arnold L. Oronsky By: /s/ W. Stephen Holmes

Managing Director

By: /s/ Thomas L. Rosch

Name: Thomas L. Rosch

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EXHIBIT A

Joint Filing Statement

We, the undersigned, hereby express our agreement that the attached Schedule 13G is filed on behalf of each of us. Date: February 13, 2009

INTERWEST PARTNERS VII, LP

By: /s/ Harvey B. Cash

By: InterWest Management Partners VII, LLC

its General Partner

Name: Harvey B. Cash

By: /s/ Philip T. Gianos By: /s/ W. Stephen Holmes

Name: Philip T. Gianos Managing Director

By: /s/ W. Scott Hedrick INTERWEST INVESTORS VII, LP

Name: W. Scott Hedrick

By: InterWest Management Partners VII, LLC its

General Partner

By: /s/ W. Stephen Holmes By: /s/ W. Stephen Holmes

Name: W. Stephen Holmes Managing Director

III

By: /s/ Gilbert H. Kliman By: /s/ W. Stephen Holmes

Name: Gilbert H. Kliman Managing Director

By: /s/ Arnold L. Oronsky INTERWEST MANAGEMENT PARTNERS VII,

LLC

Name: Arnold L. Oronsky

By: /s/ Thomas L. Rosch By: /s/ W. Stephen Holmes

Name: Thomas L. Rosch Managing Director

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