

OMB APPROVAL	
OMB Number:	3235-0287
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hours per response:	0.5

☐ 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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  <u>KANZER STEVE H</u>  (Last) (First) (Middle)  <u>C/O PIPEX</u> <u>3930 VARSITY DRIVE</u>  (Street) <u>ANN ARBOR MI 48108</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>PIPEX PHARMACEUTICALS, INC. [ PP ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner  <input checked="" type="checkbox"/> Officer (give title below) Other (specify below)  <u>CEO</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>07/16/2007</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	

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	07/16/2007		P		8,467	A	\$4.8	175,713	D	
Common Stock	07/16/2007		P		11,400	A	\$4.75	187,113	D	
Common Stock	07/16/2007		P		3,500	A	\$4.7	190,613	D	
Common Stock	07/16/2007		P		13,733	A	\$4.9	204,346	D	
Common Stock	07/16/2007		P		1,400	A	\$4.86	205,746	D	
Common Stock	07/16/2007		P		2,000	A	\$4.94	207,746	D	
Common Stock	07/16/2007		P		5,200	A	\$4.85	212,946	D	
Common Stock	07/16/2007		P		600	A	\$5.24	213,546	D	
Common Stock	07/16/2007		P		1,600	A	\$4.6	215,146	D	
Common Stock	07/16/2007		P		200	A	\$4.65	215,346	D	
Common Stock	07/16/2007		P		600	A	\$4.55	215,946	D	
Common Stock	07/16/2007		P		1,200	A	\$4.76	217,146	D	
Common Stock	07/16/2007		P		200	A	\$4.67	217,346	D	
Common Stock	07/16/2007		P		200	A	\$4.61	217,546	D	
Common Stock	07/16/2007		P		1,200	A	\$4.49	218,746	D	
Common Stock	07/16/2007		P		1,500	A	\$4.81	220,246	D	
Common Stock	07/16/2007		P		13,000	A	\$4.88	233,246	D	
Common Stock	07/16/2007		P		5,000	A	\$4.79	238,246	D	
Common Stock	07/16/2007		P		10,000	A	\$4.98	248,246	D	
Common Stock	11/02/2006		P		7,086,379	A	\$0.67	7,086,379	I	Accredited Venture Capital, LLC

**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 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: 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				
Warrants	\$2.22	11/02/2006		A		832,606		11/02/2006	11/01/2011	Common Stock	832,606	\$0	832,606	D	
Warrants	\$3.3	01/05/2007		A		7,651		01/05/2007	05/30/2015	Common Stock	7,651	\$0	7,651	D	
Warrants	\$2.22	11/28/2006		A		373,639		11/28/2006	11/27/2016	Common Stock	373,369	\$0	373,369	I	Accredited Venture Capital, LLC
Stock Options	\$2.01	11/02/2006		A		271,058		(1)	11/01/2016	Common Stock	271,058	\$0	271,058	D	

Explanation of Responses:

1. One third of these stock options vested on the grant date and the remaining options will vest in equal installments on the first and second anniversaries of the grant date.

/s/ Steve H. Kanzer 07/17/2007

\*\* 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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