

BIOENVISION INC  
 Form 4  
 July 11, 2007

**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 \*  
**GENZYME CORP**

(Last) (First) (Middle)

**C/O GENZYME CORPORATION, 500 KENDALL STREET**

(Street)

**CAMBRIDGE, MA 02142**

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
**BIOENVISION INC [BIVN]**

3. Date of Earliest Transaction  
 (Month/Day/Year)  
**07/10/2007**

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_ Director \_\_\_X\_\_\_ 10% Owner  
 \_\_\_ Officer (give title below) \_\_\_ Other (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 \_\_\_ Form filed by One Reporting Person  
 \_\_\_X\_\_\_ 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)
Common Stock	07/10/2007		P	(A) 8,706,644 (1)	\$ 5.6	8,706,644 (1) 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)**

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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 Securities (Instr. 3 and 4)	Amount or Number of Shares
				Code V (A) (D)		Date Exercisable Expiration Date	Title	
Series A Convertible Participating Preferred Stock	(2) (3)	07/10/2007		P	2,250,000	(2)(3) (2)(3)	Common Stock	(2) (3)

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
GENZYME CORP C/O GENZYME CORPORATION 500 KENDALL STREET CAMBRIDGE, MA 02142		X		
Wichita Bio CORP C/O GENZYME CORPORATION 500 KENDALL STREET CAMBRIDGE, MA 02142		X		

## Signatures

/s/ Peter Wirth, Chief Legal Officer & Executive Vice President  
 \*\*Signature of Reporting Person  
 Date 07/10/2007

/s/ Peter Wirth, Secretary & Vice President  
 \*\*Signature of Reporting Person  
 Date 07/10/2007

## 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).

Includes 123,114 shares of Common Stock (hereinafter defined) tendered by notice of guaranteed delivery in conjunction with a tender offer by Wichita Bio Corporation ("Wichita Bio") for (i) all of the issued and outstanding common stock, \$0.001 par value per share (the "Common Stock") of Bioenvision, Inc. ("Bioenvision") including all rights to purchase Series A Junior Participating Preferred Stock and (ii) all of the issued and outstanding shares of Series A Convertible Participating Preferred Stock, par value \$0.001 per share (the "Series A Preferred Stock") of Bioenvision.

Shares of Series A Preferred Stock are convertible into Common Stock from the date of issuance, May 8, 2002, and any time thereafter.  
 (2) The conversion price of Series A Preferred Stock is equal to \$1.50 per share of Common Stock, subject to adjustment upon the occurrence of certain events set forth in the Certificate of Designations for the Series A Preferred Stock.

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- The number of shares of Common Stock issuable upon conversion of the Series A Preferred Stock will be such number equal to the quotient obtained from dividing the then applicable liquidation amount of the share of Series A Preferred Stock by the then applicable conversion price as set forth in the Certificate of Designations for the Series A Preferred Stock. On July 10, 2007, the 2,250,000 shares of Series A Preferred Stock were convertible into 4,500,000 shares of Common Stock.
- (3)
- (4) The price paid for each share of Series A Preferred Stock equals \$11.20 plus the accrued but unpaid dividends up to, and including, July 10, 2007 (approximately \$0.03 per share).

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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