

ADVENTRX PHARMACEUTICALS INC  
 Form 4  
 February 03, 2010

**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

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 \*  
 PYKETT MARK JEROME

2. Issuer Name and Ticker or Trading Symbol  
 ADVENTRX  
 PHARMACEUTICALS INC [ANX]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
 6725 MESA RIDGE RD., SUITE 100  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
 02/02/2010

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

SAN DIEGO, CA 92121

(City) (State) (Zip)

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

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 Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D)	Code V Amount (D) Price		

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	2. Conversion	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	4. Transaction	5. Number of Derivative	6. Date Exercisable and Expiration Date	7. Title and Amount of Underlying Security
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Security (Instr. 3)	or Exercise Price of Derivative Security	any (Month/Day/Year)	Code (Instr. 8)	Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/Year)	(Instr. 3 and 4)						
			Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	A	N	S
Non-qualified Stock Option (Right to Buy)	\$ 0.32	02/02/2010	A		100,000		(1)	02/02/2020	Common Stock	1		
Non-qualified Stock Option (Right to Buy)	\$ 0.32	02/02/2010	A		100,000		(2)	02/02/2020	Common Stock	1		

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
PYKETT MARK JEROME 6725 MESA RIDGE RD. SUITE 100 SAN DIEGO, CA 92121		X		

## Signatures

/s/ Patrick L. Keran, Attorney-in-Fact for Mark Jerome Pykett 02/02/2010

\_\_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).
- (1) This option vests and becomes exercisable as to 1/36th of the shares subject to this option at the end of each successive month after February 2010.
- (2) 7/12th of the shares subject to this option are immediately exercisable and the remaining shares subject to this option vest and become exercisable as to 1/5th of the shares remaining at the end of each successive month after February 2010.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.