FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL											

OMB Number: 3235-0287 Estimated average burden 0.5 hours per response:

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

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

Name and Address of Reporting Person* LIEF JACK				<u> </u>	2. Issuer Name and Ticker or Trading Symbol ADVENTRX PHARMACEUTICALS INC [ANX]									k all applica	•			
(Last)	(F	First)	(Middle)											Officer (below)	give title		Other (s	specify
6725 MESA RIDGE RD.					3. Date of Earliest Transaction (Month/Day/Year)									,			,	
SUITE 100					02/02/2010													
						4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)												'	ne) X	Form file	ed by One	Repoi	ting Persor	
SAN DIEGO CA 92121			92121										21	Form filed by More than One Reporting				
(City)	(5	State)	(Zip)											Person				
		Ta	able I - Non-	Derivat	ive S	ecuritie	s A	cquired,	Disp	osed	of, or Bei	neficia	lly (Owned				
1. Title of Security (Instr. 3)			- 1	2. Transact Date Month/Day		2A. Deemed Execution Date if any (Month/Day/Yea		Code (Instr.			Securities Acquired (A) of isposed Of (D) (Instr. 3, 4			5. Amount Securities Beneficial Owned Fo	ly	Form:	Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership
								v	Amount (A) or (D)		Price		Reported Transactio (Instr. 3 an				(Instr. 4)	
			Table II - D								f, or Bene ible secu		y O	wned				
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/Yea	Code	Transaction Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisabl Expiration Date (Month/Day/Year)		nd 7. Title and Amou Securities Under Derivative Securi (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securitie Beneficia Owned Following Reported	e es ally g	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)
												Amoun	t		Transacti (Instr. 4)			
				Code	v	(A)	(D)	Date Exercisable		piration te	Title	Number of Shar						
Non- qualified Stock Option (Right to Buy)	\$0.32	02/02/2010		A		100,000		(1)	02	/02/2020	Common Stock	100,00	00	\$0	100,0	00	D	
Non- qualified Stock Option (Right to Buy)	\$0.32	02/02/2010		A		100,000		(2)	02	/02/2020	Commmon Stock	100,00	00	\$0	100,0	00	D	

Explanation of Responses:

- 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 succesive month after February 2010.

/s/ Patrick L. Keran, Attorneyin-Fact for Jack Lief

02/02/2010

** 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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.