LIEF JACK Form 5 January 19, 2010

FORM 5

OMB APPROVAL

OMB UNITED STATES SECURITIES AND EXCHANGE COMMISSION 3235-0362 Number: Washington, D.C. 20549 Check this box if January 31, Expires: no longer subject 2005 to Section 16. Estimated average ANNUAL STATEMENT OF CHANGES IN BENEFICIAL Form 4 or Form burden hours per 5 obligations OWNERSHIP OF SECURITIES response... 1.0 may continue. See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940 Form 4 Transactions Reported 1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer LIEF JACK Symbol ARENA PHARMACEUTICALS (Check all applicable) INC [ARNA] (Middle) 3. Statement for Issuer's Fiscal Year Ended (Last) (First) _X_ Director 10% Owner _X__ Officer (give title Other (specify (Month/Day/Year) below) below) 12/31/2009 Chairman, President and CEO C/O ARENA PHARMACEUTICALS, INC., 6166 NANCY RIDGE DRIVE (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Reporting Filed(Month/Day/Year) (check applicable line) SAN DIEGO, CAÂ 92121 _X_ Form Filed by One Reporting Person Form Filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction (A) or Disposed of Securities Form: Direct Indirect (Instr. 3) any Code Beneficially (D) or Beneficial (Month/Day/Year) Owned at end Indirect (I) Ownership (Instr. 8) (Instr. 3, 4 and 5) of Issuer's (Instr. 4) (Instr. 4) Fiscal Year (A) (Instr. 3 and or (D) Price Amount Common 06/26/2009 Â $G^{(1)}$ \$0 518,007 D Â 12,250 D Stock

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 2270 (9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	isable and	7. Titl	e and	8. Price of
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	Number	Expiration Da	ate	Amou	int of	Derivative
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ities	(Instr. 5)
	Derivative				Securities			(Instr.	3 and 4)	
	Security				Acquired					
					(A) or					
					Disposed					
					of (D)					
					(Instr. 3,					
					4, and 5)					
									Amount	
						D.	E		or	
						Date	Expiration	Title	Number	
						Exercisable	Date		of	
					(A) (D)				Shares	

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Reporting Owners

Reporting Owner Name / Address	Relationships						
. 9	Director	10% Owner	Officer	Other			
LIEF JACK C/O ARENA PHARMACEUTICALS, INC. 6166 NANCY RIDGE DRIVE SAN DIEGO, CA 92121	ÂX	Â	Chairman, President and CEO	Â			

Signatures

Adam S. Chinnock, as
Attorney-in-Fact
01/19/2010

**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) These shares were gifted.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.

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