FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL							
OMB Number:							
Estimated average burden							
hours per response:	0.5						

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

Kostas Odysseas D Requirements of Requirements		Date of Event equiring Staten Month/Day/Year 2/02/2010	nent	3. Issuer Name and Ticker or Trading Symbol ADVENTRX PHARMACEUTICALS INC [ANX]							
(Last) 6725 MESA F	(First)	(Middle)				4. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner			5. If Amendment, Date of Original Filed (Month/Day/Year)		
SUITE 100						Officer (give title below)	(give title Other (specify below)		6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person		
(Street) SAN DIEGO	CA	92121								by More than One	
(City)	(State)	(Zip)									
Table I - Non-Derivative Securities Beneficially Owned											
					Amount of Securities eneficially Owned (Instr. 4) 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)		ct (D) (II	4. Nature of Indirect Beneficial Ownership (Instr. 5)			
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)											
1. Title of Derivative Security (Instr. 4) 2. Date Exercisable Expiration Date (Month/Day/Year)		ate	3. Title and Amount of Secu Underlying Derivative Secu		ty (Instr. 4) Conve		ise Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)			
			Date Exercisable	Expiratio Date	n Title	e	Amount or Number of Shares	Price of Derivativ Security			

Explanation of Responses:

No securities are beneficially owned.

/s/ Patrick L. Keran, Attorneyin-Fact for Odysseas D. Kostas 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 5 (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.

POWER OF ATTORNEY

Know all by these presents, that the undersigned hereby constitutes and appoints Patrick L. Keran, the undersigned's true and lawful attorney-in-fact to:

- (1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director or beneficial owner of more than ten percent of any registered class of the securities of the Company, Forms 3, 4 and 5 in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder;
- (2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any Form 3, 4 or 5 and file such form with the United States Securities and Exchange Commission and any stock exchange or similar authority; and
- (3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-infact, may be of benefit to, and in the best interest of, or legally required by, the undersigned.

The undersigned hereby grants to such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and rights and powers herein granted. The undersigned acknowledges that the foregoing attorney-in-fact, in serving in such capacity at the request of the undersigned, is not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4 and 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorney-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 1st day of February, 2010.

Signature /s/ Odysseas Kostas

Print Name: Odysseas Kostas