FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	OVAL					
OMB Number:	3235-0287					
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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).

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* Kostas Odysseas D							2. Issuer Name and Ticker or Trading Symbol ADVENTRX PHARMACEUTICALS INC [ANX]										ship of Reporting Pe applicable) irector		10% Ov	wner
(Last) 6725 ME	,	rst) (E ROAD, SUITE	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 06/30/2010										Officer (give title below)			Other (s	specify
(Street) SAN DII			92121 (Zip)		- 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Clune) X Form filed by One Reportin Form filed by More than Or Person									orting Perso	on				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transa Date (Month/D						Execution Date,			Cod	Transaction Disposed Of (D) (I Code (Instr. 5)						5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Cod	ie V		Amount	(A) o (D)	Price		Transaction(s) (Instr. 3 and 4)				,
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
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)		of		Expirat	6. Date Exercisal Expiration Date (Month/Day/Year)			Amount of		De Se (In	Price of erivative ecurity astr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	s lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	V	(A)	(D)	Date Exercis	sable	Ex Da	piration te	Title	Amoun or Numbe of Shares	ber					
Stock Option (Right to Buy)	\$1.63	06/30/2010			A		4,000		(1)		06	/30/2020	Common Stock	4,000		\$0.00	4,000		D	

Explanation of Responses:

1. This option vests and becomes exercisable in 12 substantially equal monthly installments over the 12-month period following the date of grant, with the first such vesting date being July 30, 2010.

Remarks:

/s/ Patrick L. Keran, Attorney-07/01/2010 in-Fact for Odysseas D. Kostas

** 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.

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