UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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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).

(Print or Type Responses)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

1. Name and Address of Reporting Person * FROST PHILLIP MD ET AL		2. Issuer Name and Ticker or Trading Symbol Opko Health, Inc. [OPK]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director X 10% Owner			
(Last) (First) (Middle) OPKO HEALTH, INC., 4400 BISCAYNE BLVD.		3. Date of Earliest Transaction (Month/Day/Year) 10/21/2010)	X Officer (give title below) Other (specify below) CEO & Chairman			
(Street) MIAMI, FL 33137		4. If Amendment, Date Original Filed(Month/Day/Year)					ear)	6. Individual or Joint/Group Filing(Check Applicable Line) Form filed by One Reporting Person _X_Form filed by More than One Reporting Person			
(City) (State)	(Zip)	Tal	ble I - Non	-Dei	rivative S	ecuriti	es Acqui	red, Disposed of, or Benefic	cially Owned		
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		d of (D)	5. Amount of Securities Beneficially Owned Follow Reported Transaction(s) (Instr. 3 and 4)	Form:	7. Nature of Indirect Beneficial Ownership	
			Code	V	Amount	(A) or (D)	Price		or Indirect (I) (Instr. 4)	(Instr. 4)	
Common Stock	10/21/2010		P		500	A	\$ 2.62	97,933,552	I	See Footnote	
Common Stock	10/21/2010		P		2,000	A	\$ 2.63	97,935,552	I	See Footnote	
Common Stock	10/21/2010		P		1,000	A	\$ 2.64	97,936,552	I	See Footnote (1)	
Common Stock	10/21/2010		P		500	A	\$ 2.66	97,937,052	I	See Footnote (1)	
Common Stock	10/21/2010		P		1,700	A	\$ 2.69	97,938,752	I	See Footnote (1)	
Common Stock	10/21/2010		P		2,000	A	\$ 2.72	97,940,752	I	See Footnote	
Common Stock	10/21/2010		P		1,300	A	\$ 2.7312	97,942,052	I	See Footnote	
Common Stock	10/21/2010		P		1,000	A	\$ 2.74	97,943,052	I	See Footnote	
Common Stock								15,490,546	I	See Footnote	
Reminder: Report on a separate line indirectly.	e for each class of sec	urities beneficially	owned dire	ectly	or						
				con	tained i	n this	form ar	the collection of information of required to respon- ently valid OMB control n	d unless	EC 1474 (9- 02)	
		Derivative Securiti (e.g., puts, calls, wa									
1. Title of Derivative Conversion Date Security Or Exercise (Month/Day/Year) 3A. Deemed Execution Date Security Or Exercise (Month/Day/Year) any			5. Number 6. I		Date Exercisable d Expiration Date Ionth/Day/Year) 7. The second of the		7. T e Ame Und Sect (Ins	itle and bount of Derivative Security (Instr. 5) Server Follow Report	ative owners ities Form of ficially de Security wing Direct (or Indire action(s)	ve Ownership (Instr. 4) D)	
		Code V	(A) (D)			Expira Date	tion	or e Number of Shares			

Reporting Owners

Barrella Orana Nama / Addansa	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
FROST PHILLIP MD ET AL OPKO HEALTH, INC. 4400 BISCAYNE BLVD. MIAMI, FL 33137	X	X	CEO & Chairman				
Frost Gamma Investments Trust 4400 BISCAYNE BLVD. MIAMI, FL 33137		X					

Signatures

Phillip Frost, M.D., Individually and as Trustee	10/22/2010
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).
 - The securities are held by Frost Gamma Investments Trust, of which Phillip Frost M.D., is the trustee. Frost Gamma L.P. is the sole and exclusive beneficiary of Frost Gamma Investments Trust. Dr. Frost is one of two limited partners of Frost Gamma L.P. The general partner of Frost Gamma L.P. is Frost Gamma, Inc., and the sole
- (1) shareholder of Frost Gamma, Inc. is Frost-Nevada Corporation. Dr. Frost is also the sole shareholder of Frost-Nevada Corporation. The reporting person disclaims beneficial ownership of these securities, except to the extent of any pecuniary interest therein and this report shall not be deemed an admission that the reporting person is the beneficial owner of these securities for purposes of Section 16 or for any other purpose.
- These securities are owned directly by The Frost Group, LLC. Frost Gamma Investments Trust is a principal member of The Frost Group, LLC. The reporting person (2) disclaims beneficial ownership of these securities, except to the extent of any pecuniary interest therein and this report shall not be deemed an admission that the reporting person is the beneficial owner of these securities for purposes of Section 16 or for any other purpose.

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.

JOINT FILER INFORMATION

Name: Frost Gamma Investments Trust

Address:

4400 Biscayne Blvd. Miami, FL 33137

Designated Filer: Phillip Frost, M.D.

Issuer Name and Ticker Symbol: OPKO Health, Inc. (OPK)

Date of Earliest Transaction: October 21, 2010

Relationship to Issuer: 10% Owner

FROST GAMMA INVESTMENTS TRUST

By: /s/ Phillip Frost, M.D., as trustee Phillip Frost, M.D., Trustee