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

SCHEDULE 13G Under the Securities Exchange Act of 1934 ISIS PHARMACEUTICALS, INC. (Name of Issuer) Common Stock, \$0.001 Par Value (Title of Class of Securities) 4643300109 (CUSIP Number) Wayne P. Merkelson, Esq. Novartis Corporation 564 Morris Avenue Summit, NJ 07901-1398 Telephone: (908) 522-6777 (Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

Copy to:

Spencer D. Klein, Esq. Shearman & Sterling 599 Lexington Avenue New York, New York 10022 Telephone: (212) 848-4000

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

_	Rule	13d-1 (b)
X	Rule	13d-1(c)
I_I	Rule	13d-1 (d)

CUSIP No.	No. 4643300109						
(1)	Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person Novartis AG						
(2)	Check the Appropriate Box if a Member of Group (See Instructions)						
_	(a)						
_	(b)						
(3)	SEC Use Only						
(4) Citizenship or Place of Organization Switzerland							
Number of		(5)	Sole Voting Power	0			
Shares							
Beneficia	lly	(6)	Shared Voting Power	2,354,150			
Owned by							
Each		(7)	Sole Dispositive Power				
Reporting							

Person	(8)	Shared Dispositive Power 2,354,150
With 		
(9)	Aggregate Amount	Beneficially Owned by Each Reporting Person 2,354,150
(10)	Check if the Agg: Instructions)	regate Amount in Row (9) Excludes Certain Shares (See
(11)	Percent of Class 8.75%	Represented by Amount in Row (9)

(12) Type of Reporting Person (See Instructions) CO

(1) Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person Novartis Pharma AG (2) Check the Appropriate Box if a Member of Group (See Instructions) 1_1 (a) 1_1 (b) (3) SEC Use Only (4) Citizenship or Place of Organization Switzerland (5) Sole Voting Power 0 Number of -----Shares _____ Beneficially (6) Shared Voting Power 2,219,000 Owned by _____ (7) Each Sole Dispositive Power 0 -----Reporting _____ (8) Person Shared Dispositive Power 2,219,000 _____ With _____ ____ (9) Aggregate Amount Beneficially Owned by Each Reporting Person 2,219,000 _____ (10) Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) Percent of Class Represented by Amount in Row (9) (11) 8.25%

(12) Type of Reporting Person (See Instructions) CO

CUSIP No. 4643300109

(1) Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person Novartis Pharmaceuticals Corporation (2) Check the Appropriate Box if a Member of Group (See Instructions) 1_1 (a) 1_1 (b) (3) SEC Use Only (4) Citizenship or Place of Organization Delaware (5) Sole Voting Power 0 Number of -----Shares _____ Beneficially (6) Shared Voting Power 38,053 ------Owned by _____ (7) Each 0 Sole Dispositive Power -----Reporting -----Shared Dispositive Power 38,053 Person (8) _____ With _____ _____ (9) Aggregate Amount Beneficially Owned by Each Reporting Person 38,053 _____ (10) Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) Percent of Class Represented by Amount in Row (9) (11) 0.14%

(12) Type of Reporting Person (See Instructions) CO

CUSIP No. 4643300109

(1) Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person Genetic Therapy, Inc. (2) Check the Appropriate Box if a Member of Group (See Instructions) 1_1 (a) 1_1 (b) (3) SEC Use Only (4) Citizenship or Place of Organization Delaware (5) Sole Voting Power 0 Number of -----Shares -----Beneficially (6) 97,097 Shared Voting Power · Owned by _____ (7) Each Sole Dispositive Power 0 _____ Reporting _____ Shared Dispositive Power 97,097 Person (8) _____ With _____ ____ (9) Aggregate Amount Beneficially Owned by Each Reporting Person 97,097 _____ (10) Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) Percent of Class Represented by Amount in Row (9) (11) 0.36%

(12) Type of Reporting Person (See Instructions) CO

CUSIP No. 4643300109

Item 1. Issuer

(a)	Isis	Pharr	nace	euticals,	Inc.
(b)	2292	Farad	day	Avenue	
	Carls	sbad,	Cal	ifornia	92008

Item 2. Persons Filing

- (a) Name of Person Filing: Novartis AG ("Novartis"), Novartis Pharma AG, Novartis Pharmaceuticals Corporation and Genetic Therapy, Inc.
 (b) Address of Principal Offices:

 (i) The principal offices of Novartis are located at Schwarzwaldallee 215, CH-4002, Basel, Switzerland.
 (ii) The principal offices of Novartis Pharma AG are
 - located at Lichtstrasse 35, CH-4002, Basel, Switzerland. (iii) The principal offices of Novartis Pharmaceuticals Corporation are located at 59 Route 10, East Hanover, New Jersey 07936. (iv) The principal offices of Genetic Therapy, Inc. are
- located at 938 Clopper Road, Gaithersburg, Maryland 20878.
 (c) Citizenship: Novartis and Novartis Pharma AG are Swiss corporations. Novartis Pharmaceuticals Corporation and Genetic Therapy, Inc. are Delaware corporations.
- (d) Title of Class of Securities: Common Stock, \$0.001 par value.
 (e) CUSIP Number: 464300109
- Item 3. This statement is filed pursuant to ss.240.13d-1(c).
- Item 4. Ownership
 - (a) Novartis Pharma AG owns 2,219,000 shares of Common Stock, Novartis Pharmaceuticals Corporation owns 38,053 shares of Common Stock and Genetic Therapy, Inc. owns 97,097 shares of Common Stock. By virtue of the shares held by Novartis Pharma AG, Novartis Pharmaceuticals Corporation and Genetic Therapy, Inc., Novartis, as the ultimate parent entity, beneficially owns 2,354,150 shares of Common Stock.
 - (b) Together the shares of Common Stock held by Novartis Pharma AG, Novartis Pharmaceuticals Corporation and Genetic Therapy, Inc. constitute approximately 8.75% of the outstanding Common Stock of the Issuer.
- Item 5. Ownership of Five Percent or Less of a Class

Not applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person

Not applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company

Not applicable.

Item 8. Identification and Classification of Members of the Group

Not Applicable.

Item 9. Notice of Dissolution of Group

Not Applicable.

Item 10. Certification if Statement Filed Pursuant to Rule 13d-1(c)

(a) Not applicable.

(b) By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 13, 1999

NOVARTIS AG

By: /s/ Dr. Urs Baerlocher Name: Dr. Urs Baerlocher Title: General Counsel

By: /s/ Martin Henrich Name: Martin Henrich Title: Associate General Counsel

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 10, 1999

NOVARTIS PHARMA AG

By: /s/ Joseph Mamie Name: Joseph Mamie Title: Pharma Finance, Financial Investment

By: /s/ Olivier Bassi Name: Olivier Bassi Title: Senior Legal Counsel

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 11, 1999

NOVARTIS PHARMACEUTICALS CORPORATION

By: /s/ Kenneth P. Schuster Name: Kenneth P. Schuster Title: Vice President and Controller

By: /s/ Urs A. Naegelin Name: Urs A. Naegelin Title: Senior Vice President and CFO Finance and Administration

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 10, 1999

GENETIC THERAPY, INC.

By: /s/ James T. DePalma Name: James T. DePalma Title: Vice President and Chief Financial Officer Finance and Information Technology