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

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934 (AMENDMENT NO. 4)*

Isis Pharmaceuticals, Inc.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
464330-10-9
(CUSIP Number)
December 31, 2001
(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
/X/ Rule 13d-1(b) // Rule 13d-1(c)
/ / Rule 13d-1(c) / / Rule 13d-1(d)
*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.
The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).
Page 1 of 9 Pages
SCHEDULE 13G
CUSIP NO. 464330-10-9 Page 2 of 9 Pages
(1) NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)
Salomon Smith Barney Inc.
(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)
(a) //
(b) //
(3) SEC USE ONLY

New York

(4) CITIZENSHIP OR PLACE OF ORGANIZATION

NUMBER OF	(5) SOLE VOTING POWER	0
SHARES		
BENEFICIALLY	(6) SHARED VOTING POWER	6,109,455*
OWNED BY		
EACH	(7) SOLE DISPOSITIVE POWER	0
REPORTING		
PERSON	(8) SHARED DISPOSITIVE POWER	6,109,455*
WITH:		
(9) AGGREGATE AMOUNT BE	NEFICIALLY OWNED BY EACH REPORTING PERSON	
	GATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHA	
(11) PERCENT OF CLASS R	REPRESENTED BY AMOUNT IN ROW (9)	11.7%*
	PERSON (SEE INSTRUCTIONS)	BD
	exercise of certain securities held.	
	SCHEDULE 13G	
CUSIP NO. 464330-10-9	Page	3 of 9 Pages
(1) NAMES OF REPORTING I.R.S. IDENTIFICAT	PERSONS TION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
Salomon Brothers H	olding Company Inc	
(2) CHECK THE APPROPRI	ATE BOX IF A MEMBER OF A GROUP (SEE INSTRUC	TIONS)
		(a) // (b) //
(3) SEC USE ONLY		
(4) CITIZENSHIP OR PLA	CE OF ORGANIZATION	Delaware
NUMBER OF	(5) SOLE VOTING POWER	0
SHARES		
BENEFICIALLY	(6) SHARED VOTING POWER	6,109,455*
OWNED BY		
EACH	(7) SOLE DISPOSITIVE POWER	0
REPORTING		
PERSON	(8) SHARED DISPOSITIVE POWER	6,109,455*
WITH:		
(9) AGGREGATE AMOUNT BE	NEFICIALLY OWNED BY EACH REPORTING PERSON	6,109,455*

	GATE AMOUNT IN ROW (9) EXCLUDES CERT	
	EPRESENTED BY AMOUNT IN ROW (9)	11.7%*
(12) TYPE OF REPORTING F	PERSON (SEE INSTRUCTIONS)	CO
	kercise of certain securities held.	
	SCHEDULE 13G	
CUSIP NO. 464330-10-9		Page 4 of 9 Pages
Salomon Smith Barne	ON NOS. OF ABOVE PERSONS (ENTITIES by Holdings Inc.	ONLY)
(2) CHECK THE APPROPRIE	ATE BOX IF A MEMBER OF A GROUP (SEE	(a) //
(3) SEC USE ONLY		(b) / /
(4) CITIZENSHIP OR PLAC	CE OF ORGANIZATION (5) SOLE VOTING POWER	New York
SHARES		
BENEFICIALLY OWNED BY	(6) SHARED VOTING POWER	7,549,405*
EACH REPORTING	(7) SOLE DISPOSITIVE POWER	0
PERSON	(8) SHARED DISPOSITIVE POWER	7,549,405*
WITH:		
(9) AGGREGATE AMOUNT BEN	REFICIALLY OWNED BY EACH REPORTING P	ERSON 7,549,405*
	EPRESENTED BY AMOUNT IN ROW (9)	14.5%*
	PERSON (SEE INSTRUCTIONS)	HC

 $^{\star}\,$ Assumes conversion/exercise of certain securities held.

SCHEDULE 13G

CUSIP NO. 4643	30-10-9		Page 5 of 9 Pages
(1) NAMES OF I.R.S. ID		RSONS NOS. OF ABOVE PERSONS (ENTITIES ON	
Citigroup			
(2) CHECK THE		BOX IF A MEMBER OF A GROUP (SEE IN	
			(a) // (b) //
(3) SEC USE 0			
(4) CITIZENSH	IP OR PLACE	OF ORGANIZATION	Delaware
NUMBER	0F	(5) SOLE VOTING POWER	0
SHARES			
BENEFICIA	LLY	(6) SHARED VOTING POWER	7,621,415*
OWNED B	Υ		
EACH		(7) SOLE DISPOSITIVE POWER	0
REPORTIN	G		
PERSON		(8) SHARED DISPOSITIVE POWER	7,621,415*
WITH:			
(9) AGGREGATE	AMOUNT BENEF	ICIALLY OWNED BY EACH REPORTING PER	SON 7,621,415* **
(10) CHECK IF		E AMOUNT IN ROW (9) EXCLUDES CERTAI	
		ESENTED BY AMOUNT IN ROW (9)	14.6%*
		SON (SEE INSTRUCTIONS)	НС
* Assumes co	nversion/exe	rcise of certain securities held. y the other reporting persons.	
Item 1(a).	Name of Iss	uer:	
	Isis Pharma	ceuticals, Inc.	
Item 1(b).	Address of	Issuer's Principal Executive Office	s:
	2292 Farada Carlsbad, C		
Item 2(a).	Name of Per	son Filing:	

Salomon Smith Barney Holdings Inc. ("SSB Holdings") Citigroup Inc. ("Citigroup") Item 2(b). Address or Principal Office or, if none, Residence: The address of the principal office of each of SSB, SBHC and SSB Holdings is: 388 Greenwich Street New York, NY 10013 The address of the principal office of Citigroup is: 399 Park Avenue New York, NY 10043 Item 2(c). Citizenship or Place of Organization: SSB and SSB Holdings are New York corporations. SBHC and Citigroup are Delaware corporations. Title of Class of Securities: Item 2(d). Common Stock Item 2(e). Cusip Number: 464330-10-9 Page 6 of 9 Pages Item 3. If this Statement is Filed Pursuant to Sections 240.13d-1(b) or 240.13d-2(b) or (c), Check Whether the Person Filing is a(n): [X] Broker or dealer registered under section 15 of the Act (15 U.S.C. 780); [] Bank as defined in section 3(a)(6) of the Act (b) (15 U.S.C. 78c); (c) [] Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c); [] Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8); [] Investment adviser in accordance with Section (e) 240.13d-1(b)(1)(ii)(E); (f) [] Employee benefit plan or endowment fund in accordance with Section 240.13d-1(b)(1)(ii)(F); [X] Parent holding company or control person in accordance (g) with Section 240.13d-1(b)(1)(ii)(G);[] Savings association as defined in Section 3(b) of the (h) Federal Deposit Insurance Act (12 U.S.C. 1813); (i) [] Church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3) (j) [] Group, in accordance with Section 240.13d-1(b)(1)(ii)(J). Item 4. Ownership. (as of December 31, 2001) (a) Amount beneficially owned: See item 9 of cover pages

(b) Percent of Class: See item 11 of cover pages(c) Number of shares as to which the person has:

sole power to vote or to direct the vote:

Salomon Smith Barney Inc. ("SSB")

Salomon Brothers Holding Company Inc ("SBHC")

- (ii) shared power to vote or to direct the vote:
- (iii) sole power to dispose or to direct the disposition of:
- (iv) shared power to dispose or to direct the disposition of:

See Items 5-8 of cover pages

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Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following [].

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.

SBHC is the sole stockholder of SSB. SSB Holdings is the sole stockholder of SBHC. Citigroup is the sole stockholder of SSB Holdings.

Item 8. Identification and Classification of Members of the Group.

Not Applicable.

Item 9. Notice of Dissolution of Group.

Not Applicable.

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Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and 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.

SIGNATURE.

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.

Dated: January 21, 2002

SALOMON SMITH BARNEY INC.

By: /s/ Joseph B. Wollard

Name: Joseph B. Wollard Title: Assistant Secretary By: /s/ Joseph B. Wollard

Name: Joseph B. Wollard

Title: Assistant Secretary

SALOMON SMITH BARNEY HOLDINGS INC.

By: /s/ Joseph B. Wollard

Nama: locanh P. Wollard

Name: Joseph B. Wollard Title: Assistant Secretary

CITIGROUP INC.

By: /s/ Joseph B. Wollard

Name: Joseph B. Wollard Title: Assistant Secretary

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EXHIBIT INDEX TO SCHEDULE 13G

EXHIBIT 1

Agreement among SSB, SBHC, SSB Holdings and Citigroup as to joint filing of Schedule $13\mbox{G}$

EXHIBIT 1

AGREEMENT AS TO JOINT FILING OF SCHEDULE 13G

Each of the undersigned hereby affirms that it is individually eligible to use Schedule 13G, and agrees that this Schedule 13G is filed on its behalf.

Date: January 21, 2002

SALOMON SMITH BARNEY INC.

By: /s/ Joseph B. Wollard

Name: Joseph B. Wollard Title: Assistant Secretary

SALOMON BROTHERS HOLDING COMPANY INC

By: /s/ Joseph B. Wollard

Name: Joseph B. Wollard Title: Assistant Secretary

SALOMON SMITH BARNEY HOLDINGS INC.

By: /s/ Joseph B. Wollard

Name: Joseph B. Wollard Title: Assistant Secretary

CITIGROUP INC.

By: /s/ Joseph B. Wollard

Name: Joseph B. Wollard Title: Assistant Secretary