Form PTO-1595 (Rev. 09/04) OMB No. 0651-0027 (exp. 6/30/2005)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
RECORDATION FORM COVER SHEET	
PATENTS ONLY	
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
Nicholas M. Dean / July 13, 2005	Name: Isis Pharmaceuticals, Inc.
Ming-Yi Chiang / August 2, 2005 Kenneth W. Dobie / July 20, 2005	Internal Address:
Execution Date(s)	Street Address: 1896 Rutherford Rd.
Additional name(s) of conveying party(ies) attached? Yes V	
3. Nature of conveyance: Assignment Merger	City: Carlsbad
Security Agreement Change of Name	State: California
Other	Country: United States Zip: 92008
	Additional name(s) & address(es) attached? Yes No
4. Application or patent number(s): This document is being filed together with a new application.	
A. Patent Application No.(s)	B. Patent No.(s)
11/135,255	
filed 5/23/2005	
Additional numbers at	 ached?
5. Name and address to whom correspondence	<u> </u>
concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Isis Pharmaceuticals, Inc.	7 7-4-15-1 (07 OFD 4 04(b) 0 0 44)
Internal Address:	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
internal Address	Authorized to be charged by credit card
Street Address: 1896 Rutherford Rd.	Authorized to be charged to deposit account
Street Address:	Enclosed None required (government interest not affecting title)
City: Carlsbad	8. Payment Information
State: California Zip: 92008	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: 760 931-9200	b. Deposit Account Number 50-0252
Fax Number: 760 603-3820	Authorized User Name Isis Pharmaceuticals
Email Address:)
9. Signature:	8/2/2005
Signature	Date
Donna T. Ward, Ph.D., Reg. No. 48,271	Total number of pages including cover
Name of Person Signing	sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or malled to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT REEL: 016604 FRAME: 0774 DOCKET NO.: HTS-0059US PATENT

ASSIGNMENT

WHEREAS, I/we, Nicholas M. Dean, of Olivenhain, California, Ming-Yi Chiang, of

San Diego, California, Kenneth W. Dobie, of Del Mar, California, has/have invented a certain

invention entitled MODULATION OF TUDOR-SN EXPRESSION, for which I/we have made

an application for Letters Patent of the United States, said application having been filed

5/23/2005 and assigned Application No. 11/135,255; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 1896

Rutherford Road, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire

right, title and interest in and to the said inventions or improvements and in and to the said

application, and in, to and under any and all Letters Patent which may be granted on or as a result

thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each

of us in hand paid by said assignee, and other good and valuable consideration, the receipt of

which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set

over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire

right, title and interest in and to said inventions or improvements and said application and any

and all continuations, divisions and renewals of and substitutes for said application, and in, to and

under any and all Letters Patent which may be granted on or as a result thereof in the United

States and any and all other countries, and any reissue or reissues or extension or extensions of

said Letters Patent, and assign to and authorize said assignee, to file in our names applications for

Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors,

assigns, nominees or legal representatives, to the full end of the term or terms for which said

Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same

would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein

assigned, and that we have not executed and will not execute any agreement in conflict herewith,

ASSIGNMENT - Page 1 of 5

PATENT

REEL: 016604 FRAME: 0775

DOCKET NO.: HTS-0059US PATENT

and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

ASSIGNMENT - Page 2 of 5

PATENT REEL: 016604 FRAME: 0776 DOCKET NO.: HTS-0059US

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

behalf of which the person acted, executed the Assignment.

County of <u>San Diese</u>

On this 13th day of July , 2005 before me, the undersigned, a Notary Public for the state, personally appeared Nicholas M. Dean, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on

LAURA L. EAMES Commission # 1483258 Notary Public - California San Diego County My Comm. Expires Apr 13, 2008 WITNESS my hand and official seal.

Signature of Notary

ASSIGNMENT - Page 3 of 5

DOCKET NO.: HTS-0059US

PATENT

Dated:

8-2 20 2

Ming-Yi Chiang

State of California

County of <u>San Di</u>

SS.

LAURA L. EAMES
Commission # 1483258
Notary Public - California
San Diego County
My Comm. Expires Apr 13, 2008

behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

ASSIGNMENT - Page 4 of 5

DOCKET NO.: HTS-0059US	PATENT
Dated: 7/20 20 05	Kenneth W. Dobie
State of) ss. County of	
On this day of	, 20, before me, the undersigned,
a Notary Public for the state, personally appear me/proved to me on the basis of satisfactory e	<u>-</u>
foregoing Assignment and acknowledged to n	ne that he/she executed the same in his/her
authorized capacity, and that by his/her signature	on the Assignment the person, or the entity on
behalf of which the person acted, executed the A	ssignment.
	WITNESS my hand and official seal.
	Signature of Notary

ASSIGNMENT - Page 5 of 5

PATENT REEL: 016604 FRAME: 0779