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04/21/05

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Form PTO-1595 (Rev. 09/04)
OMB No. 0651-0027 (exp. 6/30/2005)



U.S. DEPARTMENT OF COMMERCE
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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): Sujatha Dokka / 04/13/2005 Scott Cooper / 04/14/2005 Susan Kelly / 04/14/2005 Execution Date(s) _____ Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2. Name and address of receiving party(ies) Name: <u>Isis Pharmaceuticals, Inc.</u> Internal Address: _____ Street Address: <u>1896 Rutherford Rd.</u> City: <u>Carlsbad</u> State: <u>California</u> Country: <u>United States</u> Zip: <u>92008</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other	
4. Application or patent number(s): A. Patent Application No.(s) _____ B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> This document is being filed together with a new application.
5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Isis Pharmaceuticals, Inc.</u> Internal Address: _____ Street Address: <u>1896 Rutherford Rd.</u> City: <u>Carlsbad</u> State: <u>California</u> Zip: <u>92008</u> Phone Number: <u>760 931-9200</u> Fax Number: <u>760 603-3820</u> Email Address: _____	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number <u>50-0252</u> Authorized User Name <u>Isis Pharmaceuticals</u>
9. Signature: <u>Colleen J. McKiernan</u> Signature <u>April 21, 2005</u> Date <u>Colleen J. McKiernan, Ph.D.</u> Reg. No. 48,570 Name of Person Signing Total number of pages including cover sheet, attachments, and documents: <u>8</u>	

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

05/02/2005 DBYRNE 00000170 500252 11112451
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PATENT
REEL: 016503 FRAME: 0337

Recordation Form Cover Sheet
PATENTS ONLY
(Cont.)

ITEM 1 (cont.): Addt'l name(s) of conveying part(ies)

Name

Execution Date(s)

Gregory E. Hardee

04/13/2005

James G. Karras

04/13/2005

ASSIGNMENT

WHEREAS, we **Sujatha Dokka, of San Marcos, California, Scott Cooper, of Petaluma, California, Susan Kelly of San Diego, California, Gregory E. Hardee of San Diego, California, and James G. Karras, of San Marcos, California**, hereinafter referred to as the assignors, are the joint inventors and/or contributors of certain inventions or improvements for which we have filed a provisional application in the United States Patent and Trademark Office, identified as Case No. **FMDL0008US** entitled **"Compositions and Methods for Topical Delivery of Oligonucleotides"**; filed concurrently herewith; and

WHEREAS, **ISIS Pharmaceuticals, Inc.** hereinafter referred to as the assignee, of **1896 Rutherford Road, Carlsbad, California 92008**, 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 provisional application, and to any patent application(s) corresponding thereto, 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 provisional application and any and all corresponding patent application(s) and continuations, divisions and renewals of and substitutes for said corresponding patent application(s), 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 corresponding patent 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, 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 provisional application and said corresponding patent application(s) 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 provisional application, said corresponding patent application(s) 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 any 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 any corresponding patent application(s) aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

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

4-13-2005

Date

Sujatha Dokka

(L.S.)

STATE OF

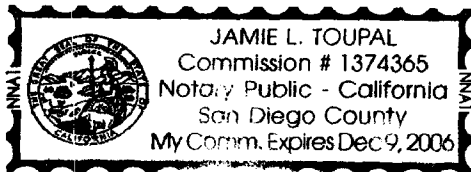
California

: SS

COUNTY OF

San Diego

On this 13th day of April, year of 2005, before me personally came the above named **Sujatha Dokka** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



Jamie L. Toupal
Notary Public

4-14-05
DateScott Cooper (L.S.)
Scott Cooper

STATEMENT OF WITNESSES

We sign below as witnesses. This Assignment was signed in our presence.

WITNESS: Gregy GromalaDATE: 14 April 05WITNESS: Penny JueDATE: 4/14/05

4/15/05
Date
Susan Kelly (L.S.)

STATEMENT OF WITNESSES

We sign below as witnesses. This Assignment was signed in our presence.

WITNESS: 

DATE: 04/15/05

WITNESS: 

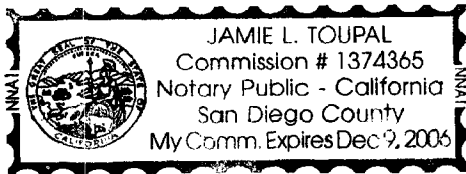
DATE: 15-APR-05

4-13-2005
Date


Greg E Hardee (L.S.)
Gregory E. Hardee

STATE OF California :
COUNTY OF San Diego : SS

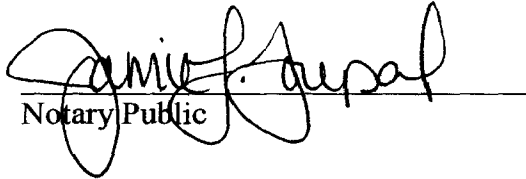
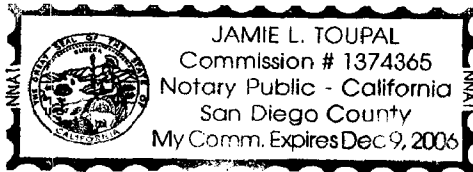
On this 13th day of April, year of 2005, before me personally came the above named **Gregory E. Hardee** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



Jamie L. Toupal
Notary Public

Date April 13, 2005
James G. Karras (L.S.)STATE OF California :
COUNTY OF San Diego : SS

On this 13th day of April, year of 2005, before me personally came the above named **James G. Karras** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.


Notary Public