FORM PTO-1595 1-31-92
MRP
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To The Honorable Commission
thereof.
1. Name of conveying party(ies

04-02-2001 101655539

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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thereof.	ecord the attached documents of copy
Name of conveying party(ies): Robert McKay, Susan M. Freier and Jacqueline Wyatt	Name and address of receiving party(ies): Name: Isis Pharmaceuticals Inc. Internal Address:
Additional name(s) of conveying party(ies) attached? () YES (X) NO	Street Address: 2292 Faraday Ave City Carlsbad
3. Nature of Conveyance: (X) Assignment () Merger () Security Agreement () Change of Name () Other: Execution Date: 21らし	Street Address: 2292 Faraday Ave City Carlsbad State California Zip 92008 Additional name(s) & address attached? () YES (X) NO
4. Application number(s) or patent number (s): N/A	
If this document is being filed together with a new applic	
A. Patent Application No.(s) Not yet assigned	B. Patent No.(s) N/A
Additional numbers attache	
5. Name and address of party to whom correspondence concerning documents should be mailed: Oq/18017a Name: Jane Massey Licata Address: Licata & Tyrrell, P.C. Marlton NJ 08053	 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41):\$40.00 () Enclosed (X) Authorized to be charged to deposit account 8. Deposit account number: 500252 (Attach duplicate copy of this page if paying by deposit account)
DO NOT USE	
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Laurel Spear Bernstein / 37,280 Name of Person Signing/Reg.No. Signature Total number of pages including cover sheet, attachments, and document:: 4	
Mail documents to be recorded with required cover shee	t information to:
Commissioner of Pate Box Assig Washington, Public burden reporting for this sample cover sheet is es	ents and Trademarks gnments D.C. 20231

be recorded including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of

Management and Budget, Paperwork Reduction Project. (0651-0011).

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PATENT REEL: 011631 FRAME: 0837

ASSIGNMENT

WHEREAS, we Robert McKay, residing at 2277 Caminito Pescado #73, San Diego, California 92107, Susan M. Freier, residing at 2946 Renault Street, San Diego California 92122 and Jacqueline Wyatt, residing at 1065 Hymettus Avenue, Encinitas, California 92024 hereinafter referred to as the assignors, are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Case No. RTS-0159 entitled Antisense Modulation of Casein kinase 2-alpha Expression; filed concurrently herewith; and

WHEREAS, Isis Pharmaceuticals Inc. hereinafter referred to as the assignee, of 2292 Faraday Ave, Carlsbad, California 92008 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, and we further covenant and agree that we will each time a 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

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DOCKET NO.:RTS-0159

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.

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

Dated:

1/25/01

McKay

STATE OF Calfornia COUNTY OF San Diego

in my presence, and who acknowledged to me that (ng/she executed the same of his/her own free will for the purposes set forth therein.

LANE B.D. SCHWARTZ Commission # 1196197 Notary Public - California San Diego County My Comm. Expires Sep 13, 2002

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California

San Diego County My Comm. Expires Sep 13, 2002

RECORDED: 02/08/2001

Dated: 1-17-0)	Quan Trens Susan M. Freier
STATE OF CALIFORNIA)	
COUNTY OF SAN DIEGO) ss.	
Assignment in my presence, and who	er, who executed the foregoing acknowledged to me that he/she ree will for the purposes set forth
CAROL A. COLLINS Comm. # 1189498 NOTARY PUBLIC - CALIFORNIA San Diego County My Comm. Expires July 8, 2002	Courl a. Calling Notary Public
Dated: 2/5/01 STATE OF Colifornia) COUNTY OF San Diego) Ss.	Jacqueline Wyatt
STATE OF California,	
COUNTY OF San Diego) ss.	
This 5th day of Feb- personally came the above-named Jac foregoing Assignment in my presence	wary, 300/, before me cqueline Wyatt, who executed the e, and who acknowledged to me that c own free will for the purposes set