1-31-92	05-15-2000U.S. DEPARTMENT OF COMMERCI Patent and Trademark Office ET101356823CTAttorney Docke No.: 10147-0
To the Assistant Commissioner of Patents and Trademarks: Ple	ease record the attached original documents or copy thereof.
 Name of conveying party(ies): Millennium Biotherapeutics, Inc. 	 Name and address of receiving party(ies): Millennium Pharmaceuticals, Inc. 75 Sidney Street Cambridge, MA 02139
 3. Nature of conveyance: [] Assignment [] Merger [] Security Agreement [X] Change of Name [] Other: Execution Date: December 21, 1999 	
4. Application number(s) or patent number(s):If this document is being filed together with a new applic	cation, the execution date of the application is:
A. Patent Application No.(s): 09/333,159 (filed June 14, 1999)	B. Patent No.(s):
Additional	numbers attached?[] Yes [] No
 Name and address of party to whom correspondence document should be mailed: GARY D. COLBY, Ph.D., J.D. AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P. One Commerce Square - 2005 Market Street - Suite 2200 Philadelphia, PA 19103 Telephone: (215) 965-1200 Direct Dial: (215) 965-1285 Facsimile: (215) 965-1210 	7. Total fee (37 CFR 3.41) Cal. <u>1</u> x \$40.00 = <u>\$40.00</u>
e-mail: gcolby@akingump.com /12/2000 JSHABAZZ 00000158 501017 09333159 DC EC:581 40.00 CH 9. Statement and signature) NOT USE THIS SPACE
To the best of my knowledge and belief, the foregoing informat. Gary D. Colby, Ph.D., J.D. Name of Person Signing OMB No. 0651-0011 (exp. 4/94)	ion is true and correct and any attached copy is a true copy of the original document. 20 April 2000 Reg. No. 40, 961 Total number of pages including cover sheet, attachments and document:

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PATENT REEL: 010772 FRAME: 0419

State of Delaware

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"MILLENNIUM BIOTHERAPEUTICS, INC.", A DELAWARE CORPORATION, WITH AND INTO "MILLENNIUM PHARMACEUTICALS, INC." UNDER THE NAME OF "MILLENNIUM PHARMACEUTICALS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-FIRST DAY OF DECEMBER, A.D. 1999, AT 9:30 O'CLOCK A.M.



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001016341

Edward J. Freel, Secretary of State

AUTHENTICATION: 0201589

DATE: 01-14-00

PATENT REEL: 010772 FRAME: 0420

CERTIFICATE OF OWNERSHIP AND MERGER

MERGING

MILLENNIUM BIOTHERAPEUTICS, INC. (a Delaware corporation)

INTO

MILLENNIUM PHARMACEUTICALS, INC. (a Delaware corporation)

Millennium Pharmaceuticals, Inc., a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware (the "Corporation"), does hereby certify:

FIRST: That the Corporation was incorporated on the 13th day of January, 1993, pursuant to the General Corporation Law of the State of Delaware.

SECOND: That the Corporation owns all of the outstanding shares of the voting stock of Millennium BioTherapeutics, Inc., a corporation incorporated on the 27th day of May, 1997 pursuant to the General Corporation Law of the State of Delaware.

THIRD: That the Board of Directors of the Corporation, at a meeting duly held on the 13th day of October, 1999, duly adopted the following resolutions:

- RESOLVED: That, pursuant to Section 253 of the Delaware General Corporation Law, the Corporation is hereby authorized to merge Millennium BioTherapeutics, Inc., a Delaware corporation, of which the Corporation owns 100% of the outstanding voting stock, into the Corporation;
- RESOLVED: That the Chief Executive Officer, the President, the Chief Financial Officer, the General Counsel and Secretary or Assistant Secretary of the Corporation be and each hereby is, authorized to execute a Certificate of Ownership and Merger with respect to the merger of Millennium BioTherapeutics, Inc. into the Corporation and to cause the same to be filed with the Secretary of State of Delaware, and to take all such other actions and to execute all such other instruments and agreements as they or any of them may deem appropriate to effect such merger;
- RESOLVED: That the merger of Millennium BioTherapeutics, Inc. into the Corporation shall be effective upon the filing of a Certificate of Ownership and Merger with the Secretary of State of Delaware.

PATENT REEL: 010772 FRAME: 0421 IN WITNESS WHEREOF, Millennium Pharmaceuticals, Inc. has caused this Certificate to be signed by Mark J. Levin as President and attested by John B. Douglas, III as Secretary, this 21st day of December, 1999.

MILLEN PHARMACEUTICALS, INC. By: Mark President

ATTEST:

John B. Douglas, III