

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MUTHIAH MANOHARAN | 10/29/2010 |
| KALLANTHOTTATHIL G. RAJEEV | 11/09/2010 |
| DAVID BUTLER | 11/11/2010 |
| MUTHUSAMY JAYARAMAN | 11/08/2010 |
| RECEIVING PARTY DATA | |
| Name: | ALNYLAM PHARMACEUTICALS, INC. |
| Street Address: | 300 THIRD STREET |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02142 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14043682 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | PETER L MALEN |
| SIGNATURE: | /Peter L. Malen, Reg No 44,894/ |
| DATE SIGNED: | 11/13/2014 |
| Total Attachments: 2 | |
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ASSIGNMENT

Docket No. 051058-013000
Client Matter no. ALN-060-US

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, as a below named inventor, I hereby sell and assign to ALNYLAM PHARMACEUTICALS, INC. of 300 Third Street, Cambridge, MA 02142 its successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America, in and to

**SITE-SPECIFIC DELIVERY OF NUCLEIC ACIDS BY COMBINING TARGETING LIGANDS WITH
ENDOSOMOLYTIC COMPONENTS**

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefore, filed on October 8, 2010 and assigned Application No. 12/936,961 and all United States Letters Patent which may be granted therefore, and all divisions, continuations, reissues, reexaminations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said ALNYLAM PHARMACEUTICALS, INC., its successors, assigns or other legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

The undersigned hereby grant(s) the law firm of NIXON PEABODY LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said ALNYLAM PHARMACEUTICALS, INC.


1. Inventor: Muthiah MANOHARAN

Signature:  Date: 10/29/2010

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2. Inventor: Kallanthottathil G. RAJEEV

Signature:  Date: 11/9/2010

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3. Inventor: David BUTLER

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4. Inventor: Muthusamy JAYARAMAN

Signature: M. Jay Date: 11/8/2010

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