

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5187396

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ANASTASIA KHVOROVA	08/07/2012
WILLIAM SALOMON	08/07/2012
JOANNE KAMENS	08/06/2012
DMITRY SAMARSKY	09/04/2012
TOD M. WOOLF	07/31/2012
JAMES CARDIA	07/26/2012
RECEIVING PARTY DATA	
Name:	RXI PHARMACEUTICALS CORPORATION
Street Address:	257 SIMARANO DRIVE
Internal Address:	SUITE 101
City:	MARLBOROUGH
State/Country:	MASSACHUSETTS
Postal Code:	01752
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16022652
CORRESPONDENCE DATA	
Fax Number:	(617)646-8646
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	6176468000
Email:	patents_OonaJ@wolfgreenfield.com, Annie.Fearnley@wolfgreenfield.com
Correspondent Name:	OONA M. JOHNSTONE
Address Line 1:	WOLF, GREENFIELD & SACKS, P.C.
Address Line 2:	600 ATLANTIC AVENUE
Address Line 4:	BOSTON, MASSACHUSETTS 02210
ATTORNEY DOCKET NUMBER:	R0659.70021US01
NAME OF SUBMITTER:	OONA M. JOHNSTONE
SIGNATURE:	/Oona M. Johnstone/

DATE SIGNED:

10/15/2018

Total Attachments: 42

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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to **RXi Pharmaceuticals Corporation**, a Delaware Corporation, having a place of business at **60 Prescott Street; Worcester, Massachusetts 01605**, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on **March 23, 2011** under **No. 13/069,780**, bearing Attorney **Docket No. R0659.70021US00**, and entitled **REDUCED SIZE SELF-DELIVERING RNAI COMPOUNDS**, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

8.7.2012
Date

[Signature]
Inventor: Anastasia Khvorova
Address: 10 Rocklawn Road
Westborough, MA 01581
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Worcester :

On this 7 day of August, 2012, before me, the undersigned notary public, personally appeared Anastasia Khvorova, proved to me through satisfactory evidence of identification, which were Massachusetts Drivers License to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL [Signature]
Notary Public

My commission expires: 

Date _____

Inventor: William Salomon

Address: 210 Mountain Street East

Apt. 278

Worcester, Massachusetts 01606

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared William Salomon, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Joanne Kamens

Address: 21 Wessex Road

Newton, MA 02459

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Joanne Kamens _____, proved to me through satisfactory evidence of identification, which were _____,

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Dmitry Samarsky
Address: 15 Wayside Road
Westborough, MA 01581
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Dmitry Samarsky _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Tod M. Woolf

Address: 14 Babe Ruth Drive

Sudbury, MA 01776-1942

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Tod M. Woolf _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: James Cardia

Address: 11 Bacon Street

Franklin, MA 02038

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ James Cardia _____, proved to me through satisfactory evidence of identification, which were _____,

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to **RXi Pharmaceuticals Corporation**, a Delaware Corporation, having a place of business at **60 Prescott Street; Worcester, Massachusetts 01605**, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on **March 23, 2011** under **No. 13/069,780**, bearing Attorney **Docket No. R0659.70021US00**, and entitled **REDUCED SIZE SELF-DELIVERING RNAI COMPOUNDS**, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Date

Inventor: Anastasia Khvorova

Address: 10 Rocklawn Road

Westborough, MA 01581

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Anastasia Khvorova _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

8/7/2012

Date



Inventor: William Salomon

Address: 210 Mountain Street East

Apt. 278

Worcester, Massachusetts 01606

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF Worcester :

On this 7th day of August, 2012, before me, the undersigned notary public, personally appeared William Salomon, proved to me through satisfactory evidence of identification, which were driver's license,

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL



Notary Public

My commission expires:

4/20/18

Date

Inventor: Joanne Kamens

Address: 21 Wessex Road

Newton, MA 02459

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Joanne Kamens _____, proved to me through satisfactory evidence of identification, which were _____,

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Dmitry Samarsky
Address: 15 Wayside Road
Westborough, MA 01581
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Dmitry Samarsky _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Tod M. Woolf

Address: 14 Babe Ruth Drive
Sudbury, MA 01776-1942

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Tod M. Woolf _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: James Cardia

Address: 11 Bacon Street

Franklin, MA 02038

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ James Cardia _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to **RXi Pharmaceuticals Corporation**, a Delaware Corporation, having a place of business at **60 Prescott Street; Worcester, Massachusetts 01605**, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on **March 23, 2011** under **No. 13/069,780**, bearing Attorney **Docket No. R0659.70021US00**, and entitled **REDUCED SIZE SELF-DELIVERING RNAI COMPOUNDS**, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Date

Inventor: Anastasia Khvorova

Address: 10 Rocklawn Road

Westborough, MA 01581

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Anastasia Khvorova _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: William Salomon

Address: 210 Mountain Street East

Apt. 278

Worcester, Massachusetts 01606

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ William Salomon _____, proved to me through satisfactory evidence of identification, which were _____.

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

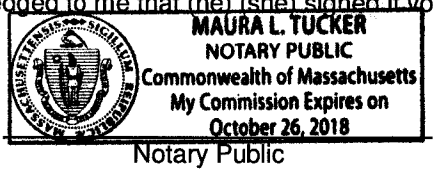
8/6/2012
Date

Joanne Kamens
Inventor: Joanne Kamens
Address: 21 Wessex Road
Newton, MA 02459
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Middlesex:

On this 6 day of August, 2012, before me, the undersigned notary public, personally appeared Joanne Kamens, proved to me through satisfactory evidence of identification, which were Massachusetts Drivers License to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL



My commission expires: October 26, 2018

Date

Inventor: Dmitry Samarsky

Address: 15 Wayside Road

Westborough, MA 01581

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Dmitry Samarsky _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Tod M. Woolf

Address: 14 Babe Ruth Drive

Sudbury, MA 01776-1942

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Tod M. Woolf _____, proved to me through satisfactory evidence of identification, which were _____,

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: James Cardia

Address: 11 Bacon Street

Franklin, MA 02038

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ James Cardia _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

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Notary Public

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ASSIGNMENT

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1. Sell, assign and transfer to **RXi Pharmaceuticals Corporation**, a Delaware Corporation, having a place of business at **60 Prescott Street; Worcester, Massachusetts 01605**, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on **March 23, 2011** under **No. 13/069,780**, bearing Attorney **Docket No. R0659.70021US00**, and entitled **REDUCED SIZE SELF-DELIVERING RNAI COMPOUNDS**, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Date

Inventor: Anastasia Khvorova

Address: 10 Rocklawn Road

Westborough, MA 01581

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Anastasia Khvorova _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: William Salomon

Address: 210 Mountain Street East

Apt. 278

Worcester, Massachusetts 01606

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ William Salomon _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Joanne Kamens

Address: 21 Wessex Road

Newton, MA 02459

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Joanne Kamens _____, proved to me through satisfactory evidence of identification, which were _____,

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date Sep 04, 2012

Inventor: D. Samarsky
Address: 15 Wayside Road
Westborough, MA 01581
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Worcester:

On this 4 day of September, 2012, before me, the undersigned notary public, personally appeared Dmitry Samarsky, proved to me through satisfactory evidence of identification, which were Mass License, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Heah L. Guzman
Notary Public

My commission expires: Mar. 14, 2019

Date

Inventor: Tod M. Woolf

Address: 14 Babe Ruth Drive

Sudbury, MA 01776-1942

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Tod M. Woolf _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: James Cardia
Address: 11 Bacon Street
Franklin, MA 02038
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ James Cardia _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to **RXi Pharmaceuticals Corporation**, a Delaware Corporation, having a place of business at **60 Prescott Street; Worcester, Massachusetts 01605**, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on **March 23, 2011** under **No. 13/069,780**, bearing Attorney Docket No. **R0659.70021US00**, and entitled **REDUCED SIZE SELF-DELIVERING RNAI COMPOUNDS**, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Date

Inventor: Anastasia Khvorova

Address: 10 Rocklawn Road

Westborough, MA 01581

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Anastasia Khvorova _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: William Salomon
Address: 210 Mountain Street East
Apt. 278
Worcester, Massachusetts 01606
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared William Salomon, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Joanne Kamens

Address: 21 Wessex Road

Newton, MA 02459

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Joanne Kamens _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Dmitry Samarsky

Address: 15 Wayside Road

Westborough, MA 01581

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Dmitry Samarsky _____, proved to me through satisfactory evidence of identification, which were _____;

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date 7/31/12

Tod Woolf

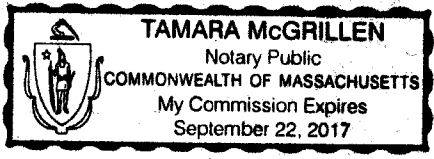
Inventor: Tod M. Woolf
Address: 14 Babe Ruth Drive
Sudbury, MA 01776-1942
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Worcester :

On this 31st day of July, 2012, before me, the undersigned notary public, personally appeared Tod M. Woolf, proved to me through satisfactory evidence of identification, which were US Passport, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL Tamara McGrillen
Notary Public

My commission expires: 9-22-17



Date

Inventor: James Cardia

Address: 11 Bacon Street

Franklin, MA 02038

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ James Cardia _____, proved to me through satisfactory evidence of identification, which were _____,

to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to **RXi Pharmaceuticals Corporation**, a Delaware Corporation, having a place of business at **60 Prescott Street; Worcester, Massachusetts 01605**, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on **March 23, 2011** under **No. 13/069,780**, bearing Attorney **Docket No. R0659.70021US00**, and entitled **REDUCED SIZE SELF-DELIVERING RNAI COMPOUNDS**, and in and to the application and all corresponding non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Date

Inventor: Anastasia Khvorova
Address: 10 Rocklawn Road
Westborough, MA 01581
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Anastasia Khvorova _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL _____
Notary Public

My commission expires: _____

Date

Inventor: William Salomon
Address: 210 Mountain Street East
Apt. 278
Worcester, Massachusetts 01606
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared William Salomon, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Joanne Kamens

Address: 21 Wessex Road

Newton, MA 02459

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Joanne Kamens _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Dmitry Samarsky

Address: 15 Wayside Road

Westborough, MA 01581

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Dmitry Samarsky _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: Tod M. Woolf

Address: 14 Babe Ruth Drive

Sudbury, MA 01776-1942

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____ Tod M. Woolf _____, proved to me through satisfactory evidence of identification, which were _____, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

26 July 2012
Date

Inventor: James Cardia
Address: 11 Bacon Street
Franklin, MA 02038
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Worcester:

On this 26th day of July, 2012, before me, the undersigned notary public, personally appeared James Cardia, proved to me through satisfactory evidence of identification, which were MA Driver's License to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Tamara McGrillen
Notary Public

My commission expires: 9-22-17

