

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT																																														
NATURE OF CONVEYANCE:	ASSIGNMENT																																														
CONVEYING PARTY DATA																																															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr><td>James A. Henderson</td><td>12/03/2010</td></tr> <tr><td>John Maxwell</td><td>12/14/2010</td></tr> <tr><td>Louis Vaillancourt</td><td>12/13/2010</td></tr> <tr><td>Mark Morris</td><td>01/04/2011</td></tr> <tr><td>Ronald Grey Jr.</td><td>12/09/2010</td></tr> <tr><td>Simon Giroux</td><td>12/03/2010</td></tr> <tr><td>Laval Chan Chun Kong</td><td>12/13/2010</td></tr> <tr><td>Sanjoy Kumar Das</td><td>12/13/2010</td></tr> <tr><td>Bingcan Liu</td><td>12/13/2010</td></tr> <tr><td>Carl Poisson</td><td>12/14/2010</td></tr> <tr><td>Caroline Cadilhac</td><td>12/14/2010</td></tr> <tr><td>Monica Bubenik</td><td>12/13/2010</td></tr> <tr><td>T. Jagadeeswar Reddy</td><td>12/13/2010</td></tr> <tr><td>Guy Falardeau</td><td>12/13/2010</td></tr> <tr><td>Constantin Yannopoulos</td><td>12/13/2010</td></tr> <tr><td>Jian Wang</td><td>12/09/2010</td></tr> <tr><td>Oswy Z. Pereira</td><td>12/13/2010</td></tr> <tr><td>Youssef L. Bennani</td><td>12/03/2010</td></tr> <tr><td>Albert C. Pierce</td><td>12/06/2010</td></tr> <tr><td>Govinda Rao Bhisetti</td><td>12/06/2010</td></tr> <tr><td>Kevin M. Cottrell</td><td>12/06/2010</td></tr> <tr><td>Valerie Marone</td><td>01/20/2011</td></tr> </tbody> </table>		Name	Execution Date	James A. Henderson	12/03/2010	John Maxwell	12/14/2010	Louis Vaillancourt	12/13/2010	Mark Morris	01/04/2011	Ronald Grey Jr.	12/09/2010	Simon Giroux	12/03/2010	Laval Chan Chun Kong	12/13/2010	Sanjoy Kumar Das	12/13/2010	Bingcan Liu	12/13/2010	Carl Poisson	12/14/2010	Caroline Cadilhac	12/14/2010	Monica Bubenik	12/13/2010	T. Jagadeeswar Reddy	12/13/2010	Guy Falardeau	12/13/2010	Constantin Yannopoulos	12/13/2010	Jian Wang	12/09/2010	Oswy Z. Pereira	12/13/2010	Youssef L. Bennani	12/03/2010	Albert C. Pierce	12/06/2010	Govinda Rao Bhisetti	12/06/2010	Kevin M. Cottrell	12/06/2010	Valerie Marone	01/20/2011
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RECEIVING PARTY DATA																																															
Name:	Vertex Pharmaceuticals Incorporated																																														
Street Address:	130 Waverly Street																																														
City:	Cambridge																																														
State/Country:	MASSACHUSETTS																																														
Postal Code:	02139																																														

CH \$40.00 13678854

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13678854

CORRESPONDENCE DATA

Fax Number: 6173416483
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 617-961-8459
Email: Frances_Cunningham@vrtx.com
Correspondent Name: Vertex Pharmaceuticals Incorporated
Address Line 1: 130 Waverly Street
Address Line 4: Cambridge, MASSACHUSETTS 02139

ATTORNEY DOCKET NUMBER:	VIRO-165 US CN1
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NAME OF SUBMITTER:	Frances M. Cunningham
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Total Attachments: 75

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ASSIGNMENT

We,

- (1) James A. Henderson, of Cambridge, MA;
- (2) John Maxwell, of Hingham, MA;
- (3) Louis Vaillancourt, of Mascouche, Quebec, Canada;
- (4) Mark Morris, of Somerville, MA;
- (5) Ronald Grey Jr., of Attleboro, MA;
- (6) Simon Giroux, of Cambridge, MA;
- (7) Laval Chan Chun Kong, of Kirkland, Quebec, Canada;
- (8) Sanjoy Kumar Das, of Pierrefonds, Quebec, Canada;
- (9) Bingcan Liu, of Laval, Quebec, Canada;
- (10) Carl Poisson, of Montreal, Quebec, Canada;
- (11) Caroline Cadilhac, of Montreal, Quebec, Canada;
- (12) Monica Bubenik, of Mascouche, Quebec, Canada;
- (13) T. Jagadeeswar Reddy, of Pierrefonds, Quebec, Canada;
- (14) Guy Falardeau, of Laval, Quebec, Canada;
- (15) Constantin Yannopoulos, of Notre-Dame de l'Île Perrot, Canada;
- (16) Jian Wang, of Newton, MA;
- (17) Oswy Z. Pereira, of Kirkland, Quebec, Canada;
- (18) Youssef L. Bennani, of Boston, MA;
- (19) Albert C. Pierce, of Cambridge, MA;
- (20) Govinda Rao Bhisetti, of Lexington, MA;
- (21) Kevin M. Cottrell, of Cambridge, MA; and
- (22) Valerie Marone, of Somerville, MA 02143

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, by virtue of our agreement with Vertex Pharmaceuticals Incorporated and do hereby assign, sell and transfer to, Vertex Pharmaceuticals Incorporated, a corporation

organized and existing under the laws of the Commonwealth of Massachusetts and having an office and a place of business at 130 Waverly Street, Cambridge, MA 02139, its successors and assigns, all hereinafter referred to as the ASSIGNEE:

(1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all of my/our inventions, and discoveries disclosed in:

(a) the application for United States Letters Patent entitled: BENZIMIDAZOLE ANALOGUES FOR THE TREATMENT OR PREVENTION OF FLAVIVIRUS INFECTIONS, and filed in the United States Patent and Trademark Office on 7/16/2010, under Application Number 12/838350¹, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: _____, filed under the Patent Cooperation Treaty in the United States Receiving Office on _____, of _____;

_____, under Application No. _____², and designating all countries, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor;

(2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the election of the ASSIGNEE or its designee, on the aforesaid inventions, discoveries and applications in the United States and in any other country of the world;

(3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any other country of the world, and in and to any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof; and

(4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in

¹ We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

² I/We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

and to the above inventions, discoveries and applications including, but not limited to, the following priority application(s):

61/226152	United States of America	7/16/2009
61/317017	United States of America	3/24/2010
Application No.	Country	Filing Date

and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

12/3/2010

James Henderson
(1) JAMES A. HENDERSON

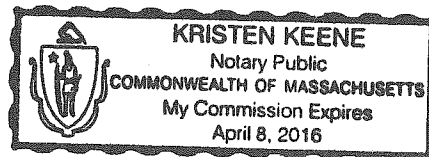
Commonwealth of Massachusetts

County of Middlesex

On this 3rd day of December, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Kristen Keene
Notary Public

My Commission Expires: 4/8/2016.



Dec 14th 2010

John Maxwell

(2) John Maxwell

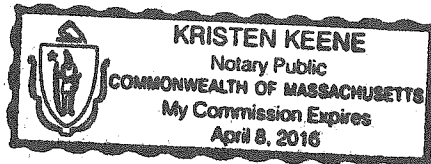
Commonwealth of Massachusetts

County of Middlesex

On this 14th day of December, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Kristen Keene
Notary Public

My Commission Expires: 4/8/2016.



(3) Louis Vaillancourt

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

Jan 4, 2011

Mark Morris

(4) Mark Morris

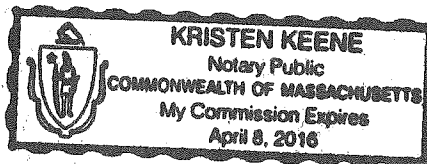
Commonwealth of Massachusetts

County of Middlesex 2011

On this 4th day of January, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Kristen Keene
Notary Public

My Commission Expires: 4/8/2016.



12/09/2010

Ronald Grey Jr.
(5) Ronald Grey Jr.

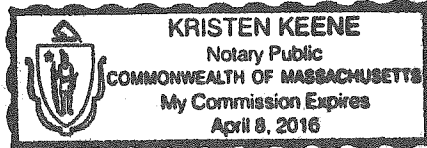
Commonwealth of Massachusetts

County of Middlesex

On this 9th day of December 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Kristen Keene
Notary Public

My Commission Expires: 4/8/2016



12/03/2010

Simon Giroux

(6) Simon Giroux

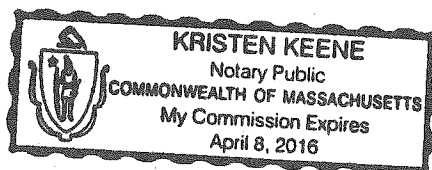
Commonwealth of Massachusetts

County of Middlesex

On this 3rd day of December, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Kristen Keene
Notary Public

My Commission Expires: 4/8/2016.



(7) Laval Chan Chun Kong

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(8) Sanjoy Kumar Das

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(9) Bingcan Liu

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(10) Carl Poisson

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(11) Caroline Cadilhac

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

(12) Monica Bubenik

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of ____
Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of ____
Date of signing

(13) T. Jagadeeswar Reddy

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

(14) Guy Falardeau

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

(15) Constantin Yannopoulos

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

12/09/2010

JW

(16) Jian Wang

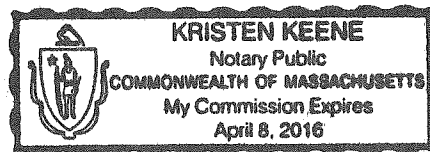
Commonwealth of Massachusetts

County of Middlesex

On this 9th day of December, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Kristen Keene
Notary Public

My Commission Expires: 4/8/2016.



(17) Oswy Z. Pereira

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

T. Bennani

12/3/2010

(18) Youssef L. Bennani

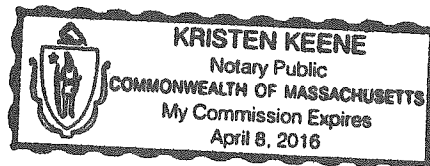
Commonwealth of Massachusetts

County of Middlesex

On this 3rd day of December, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Kristen Keene
Notary Public

My Commission Expires: 4/8/2016.



Dec. 6, 2010

Albert C. Pierce

(19) Albert C. Pierce

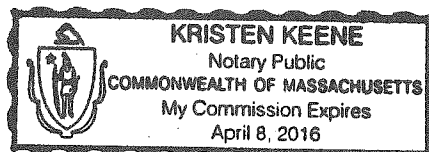
Commonwealth of Massachusetts

County of Middlesex

On this 6th day of December, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Kristen Keene
Notary Public

My Commission Expires: 4/8/2016.



December 6, 2010

Govinda Rao Bhisetti

(20) Govinda Rao Bhisetti

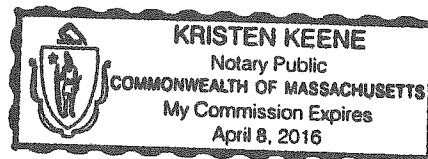
Commonwealth of Massachusetts

County of Middlesex

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Kristen Keene
Notary Public

My Commission Expires: 4/8/2016.



12/6/10

[Signature]
(21) Kevin M. Cottrell

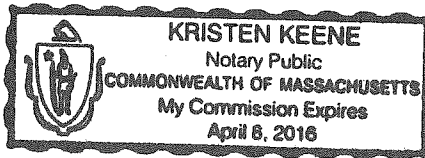
Commonwealth of Massachusetts

County of Middlesex

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Kristen Keene
Notary Public

My Commission Expires: 4/8/2016.



(22) Valerie Marone

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.
Date of signing

ASSIGNMENT

We,

- (1) James A. Henderson, of Cambridge, MA;
- (2) John Maxwell, of Hingham, MA;
- (3) Louis Vaillancourt, of Mascouche, Quebec, Canada;
- (4) Mark Morris, of Somerville, MA;
- (5) Ronald Grey Jr., of Attleboro, MA;
- (6) Simon Giroux, of Cambridge, MA;
- (7) Laval Chan Chun Kong, of Kirkland, Quebec, Canada;
- (8) Sanjoy Kumar Das, of Pierrefonds, Quebec, Canada;
- (9) Bingcan Liu, of Laval, Quebec, Canada;
- (10) Carl Poisson, of Montreal, Quebec, Canada;
- (11) Caroline Cadilhac, of Montreal, Quebec, Canada;
- (12) Monica Bubenik, of Mascouche, Quebec, Canada;
- (13) T. Jagadeeswar Reddy, of Pierrefonds, Quebec, Canada;
- (14) Guy Falardeau, of Laval, Quebec, Canada;
- (15) Constantin Yannopoulos, of Notre-Dame de l'Île Perrot, Canada;
- (16) Jian Wang, of Newton, MA;
- (17) Oswy Z. Pereira, of Kirkland, Quebec, Canada;
- (18) Youssef L. Bennani, of Boston, MA;
- (19) Albert C. Pierce, of Cambridge, MA;
- (20) Govinda Rao Bhisetti, of Lexington, MA;
- (21) Kevin M. Cottrell, of Cambridge, MA; and
- (22) Valerie Marone, of Somerville, MA 02143

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, by virtue of our agreement with Vertex Pharmaceuticals Incorporated and do hereby assign, sell and transfer to, Vertex Pharmaceuticals Incorporated, a corporation

organized and existing under the laws of the Commonwealth of Massachusetts and having an office and a place of business at 130 Waverly Street, Cambridge, MA 02139, its successors and assigns, all hereinafter referred to as the ASSIGNEE:

(1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all of my/our inventions, and discoveries disclosed in:

(a) the application for United States Letters Patent entitled: BENZIMIDAZOLE ANALOGUES FOR THE TREATMENT OR PREVENTION OF FLAVIVIRUS INFECTIONS, and filed in the United States Patent and Trademark Office on 7/16/2010, under Application Number 12/838350¹, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: _____, filed under the Patent Cooperation Treaty in the United States Receiving Office on _____, of _____;

_____, under Application No. _____², and designating all countries, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor;

(2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the election of the ASSIGNEE or its designee, on the aforesaid inventions, discoveries and applications in the United States and in any other country of the world;

(3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any other country of the world, and in and to any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof; and

(4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in

¹ We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

² I/We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

and to the above inventions, discoveries and applications including, but not limited to, the following priority application(s):

61/226152	United States of America	7/16/2009
61/317017	United States of America	3/24/2010
Application No.	Country	Filing Date

and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

(1) JAMES A. HENDERSON

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(2) John Maxwell

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(3) Louis Vaillancourt

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(4) Mark Morris

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(5) Ronald Grey Jr.

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(6) Simon Giroux

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(7) Laval Chan Chun Kong

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(8) Sanjoy Kumar Das

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(9) Bingcan Liu

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(10) Carl Poisson

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(11) Caroline Cadilhac

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(12) Monica Bubenik

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(13) T. Jagadeeswar Reddy

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(14) Guy Falardeau

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(15) Constantin Yannopoulos

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

(16) Jian Wang

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(17) Oswy Z. Pereira

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of ____
Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of ____
Date of signing

(18) Youssef L. Bennani

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(19) Albert C. Pierce

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(20) Govinda Rao Bhisetti

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(21) Kevin M. Cottrell

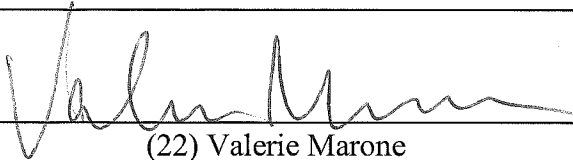
Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.


(22) Valerie Marone

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: Mariah Gagnon

Printed Name of Witness: Mariah Gagnon

this 20 day of Jan 2011.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: Elise B Holt

Printed Name of Witness: Elise B Holt

this 20 day of January 2011.

Date of signing

ASSIGNMENT

We,

- (1) James A. Henderson, of Cambridge, MA;
- (2) John Maxwell, of Hingham, MA;
- (3) Louis Vaillancourt, of Mascouche, Quebec, Canada;
- (4) Mark Morris, of Somerville, MA;
- (5) Ronald Grey Jr., of Attleboro, MA;
- (6) Simon Giroux, of Cambridge, MA;
- (7) Laval Chan Chun Kong, of Kirkland, Quebec, Canada;
- (8) Sanjoy Kumar Das, of Pierrefonds, Quebec, Canada;
- (9) Bingcan Liu, of Montreal, Quebec, Canada;
- (10) Carl Poisson, of Montreal, Quebec, Canada;
- (11) Caroline Cadilhac, of Montreal, Quebec, Canada;
- (12) Monica Bubenik, of Mascouche, Quebec, Canada;
- (13) T. Jagadeeswar Reddy, of Pierrefonds, Quebec, Canada;
- (14) Guy Falardeau, of Laval, Quebec, Canada;
- (15) Constantin Yannopoulos, of Notre-Dame de l'Île Perrot, Quebec, Canada;
- (16) Jian Wang, of Newton, MA;
- (17) Oswy Z. Pereira, of Kirkland, Quebec, Canada;
- (18) Youssef L. Bennani, of Boston, MA;
- (19) Albert C. Pierce, of Cambridge, MA;
- (20) Govinda Rao Bhisetti, of Lexington, MA;
- (21) Kevin M. Cottrell, of Cambridge, MA; and
- (22) Valerie Marone, of Somerville, MA 02143

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, by virtue of our agreement with Vertex Pharmaceuticals Incorporated and do hereby assign, sell and transfer to, Vertex Pharmaceuticals Incorporated, a corporation

organized and existing under the laws of the Commonwealth of Massachusetts and having an office and a place of business at 130 Waverly Street, Cambridge, MA 02139, its successors and assigns, all hereinafter referred to as the ASSIGNEE:

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(b) the International Patent Application entitled: _____, filed under the Patent Cooperation Treaty in the United States Receiving Office on _____, of _____;

_____, under Application No. _____², and designating all countries, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor;

(2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the election of the ASSIGNEE or its designee, on the aforesaid inventions, discoveries and applications in the United States and in any other country of the world;

(3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any other country of the world, and in and to any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof; and

(4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in

¹ We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

² I/We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

and to the above inventions, discoveries and applications including, but not limited to, the following priority application(s):

61/226152	United States of America	7/16/2009
61/317017	United States of America	3/24/2010
Application No.	Country	Filing Date

and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

(1) JAMES A. HENDERSON

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(2) John Maxwell

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

[Signature]

13/12/2010

(3) Louis Vaillancourt

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

[Signature]

Printed Name of Witness:

THERÈSE GODBOUT

this 13 day of December 2010.

Date of signing



IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

[Signature]

Printed Name of Witness:

SYLVIE OUELLET

this 13 day of December 2010.

Date of signing

(4) Mark Morris

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(5) Ronald Grey Jr.

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(6) Simon Giroux

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

[Signature]

December 13, 2010

(7) Laval Chan Chun Kong

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

[Signature]

Printed Name of Witness:

THERÈSE GODBOUT

this 13 day of

December 2010.

Date of signing



IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

[Signature]

Printed Name of Witness:

SYLVIE OUELLET

this 13 day of

December 2010.


Date of signing

Sanjoy Kumar Das,

December 13, 2010

(8) Sanjoy Kumar Das

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: 

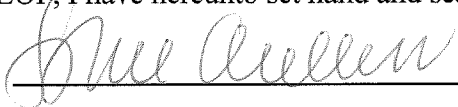
Printed Name of Witness: THÉRÈSE GODBOUT

this 13 day of December 2010

Date of signing



IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: 

Printed Name of Witness: SYLVIE OUELLET

this 13 day of December 2010

Date of signing

Bingcan Liu

Dec 13, 2010

(9) Bingcan Liu

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: [Signature]

Printed Name of Witness: THERÈSE GODBOUT



this 13 day of December 2010

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: [Signature]

Printed Name of Witness: SYLVIE OUELLET

this 13 day of December 2010.

Date of signing

Carl Poisson

December 14, 2010

(10) Carl Poisson

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: [Signature]

Printed Name of Witness: THERÈSE GODBOUT



this 13 day of December 2010.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: [Signature]

Printed Name of Witness: SYLVIE OUELLET

this 13 day of December 2010.

Date of signing

Carilhac

14 Dec 2010

(11) Caroline Cadilhac

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

[Signature]

Printed Name of Witness:

THERÈSE GODBOUT

this 14th day of December 2010.

Date of signing



IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

[Signature]

Printed Name of Witness:

SYLVIE OUELLET

this 13 day of December 2010.

Date of signing

Monica Bubenik 13 DEC 2010

[Signature]

(12) Monica Bubenik

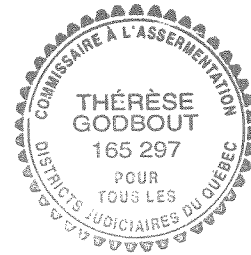
IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: *[Signature]*

Printed Name of Witness: THERESE GODBOUT

this 13 day of December 2010.

Date of signing



IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: *[Signature]*

Printed Name of Witness: SYLVIE OUELLET

this 13 day of December 2010.

Date of signing

13 DEC 2010

T. Jagadeeswar Reddy

(13) T. Jagadeeswar Reddy

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

Thérèse Godbout

Printed Name of Witness:

THÉRÈSE GODBOUT

this 13 day of

December 2010

Date of signing



IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

Sylvie Ouellet

Printed Name of Witness:

SYLVIE OUELLET

this 13 day of

December 2010

Date of signing

Guy Falardeau
2010/12/13
(14) Guy Falardeau

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

Thérèse Godbout

Printed Name of Witness:

THERÈSE GODBOUT

this 13 day of

December 2010.

Date of signing



IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

Sylvie Ouellet

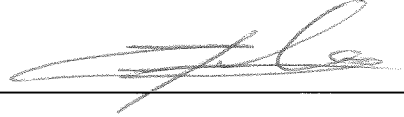
Printed Name of Witness:

SYLVIE OUELLET

this 13 day of

December 2010.

Date of signing



2010/12/13

(15) Constantin Yannopoulos

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: 

Printed Name of Witness: THERÈSE GODBOUT

this 13 day of December 2010
Date of signing



IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: 

Printed Name of Witness: SYLVIE OUELLET

this 13 day of December 2010
Date of signing

(16) Jian Wang

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(Signature)
13th Dec 2010.

(17) Oswy Z. Pereira

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

(Signature)

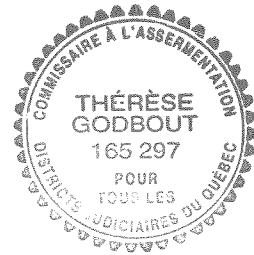
Printed Name of Witness:

THERÈSE GODBOUT

this 13 day of

December 2010

Date of signing



IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness:

(Signature)

Printed Name of Witness:

SYLVIE GODBOUT

this 13 day of

December 2010.

Date of signing

(18) Youssef L. Bennani

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(19) Albert C. Pierce

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(20) Govinda Rao Bhisetti

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(21) Kevin M. Cottrell

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 2010, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) _____, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: _____.

(22) Valerie Marone

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing

IN WITNESS WHEREOF, I have hereunto set hand and seal

Signature of witness: _____

Printed Name of Witness: _____

this ____ day of _____.

Date of signing