PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2604297

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARCIA BELVIN	10/10/2008
LORI FRIEDMAN	10/10/2008
KLAUS HOEFLICH	10/13/2008
DEEPAK SAMPATH	10/15/2008
ULKA VIJAPURKAR	10/10/2008
JEFFREY WALLIN	10/13/2008
LEISA JOHNSON	10/13/2008
MALLIKA SINGH	10/13/2008

RECEIVING PARTY DATA

Name:	GENENTECH, INC.
Street Address:	1 DNA WAY
City:	SOUTH SAN FRANCISCO
State/Country:	CALIFORNIA
Postal Code:	94080

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13109670

CORRESPONDENCE DATA

Fax Number: (952)876-4098 **Phone**: 9528764087

Email: aferro@vhpglobalip.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: VIKSNINS HARRIS & PADYS PLLP

Address Line 1: 7900 INTERNATIONAL DRIVE, SUITE 670

Address Line 4: BLOOMINGTON, MINNESOTA 55425

PATENT

REEL: 031548 FRAME: 0839

ATTORNEY DOCKET NUMBER:	01005.014US2
NAME OF SUBMITTER:	PETER L. MALEN
Signature:	/Peter L. Malen/
Date:	11/05/2013
Total Attachments: 21	

source=01005.014US2-Assignment to be Filed-GNE#page1.tif source=01005.014US2-Assignment to be Filed-GNE#page2.tif source=01005.014US2-Assignment to be Filed-GNE#page3.tif source=01005.014US2-Assignment to be Filed-GNE#page4.tif source=01005.014US2-Assignment to be Filed-GNE#page5.tif source=01005.014US2-Assignment to be Filed-GNE#page6.tif source=01005.014US2-Assignment to be Filed-GNE#page7.tif source=01005.014US2-Assignment to be Filed-GNE#page8.tif source=01005.014US2-Assignment to be Filed-GNE#page9.tif source=01005.014US2-Assignment to be Filed-GNE#page10.tif source=01005.014US2-Assignment to be Filed-GNE#page11.tif source=01005.014US2-Assignment to be Filed-GNE#page12.tif source=01005.014US2-Assignment to be Filed-GNE#page13.tif source=01005.014US2-Assignment to be Filed-GNE#page14.tif source=01005.014US2-Assignment to be Filed-GNE#page15.tif source=01005.014US2-Assignment to be Filed-GNE#page16.tif source=01005.014US2-Assignment to be Filed-GNE#page17.tif source=01005.014US2-Assignment to be Filed-GNE#page18.tif source=01005.014US2-Assignment to be Filed-GNE#page19.tif source=01005.014US2-Assignment to be Filed-GNE#page20.tif source=01005.014US2-Assignment to be Filed-GNE#page21.tif

WHEREAS, We, Marcia Belvin, residing at One DNA Way, South San Francisco, CA 94080; and Lori Friedman, residing at One DNA Way, South San Francisco, CA 94080; and Klaus Hoeflich, residing at One DNA Way, South San Francisco, CA 94080; and Deepak Sampath, residing at One DNA Way, South San Francisco, CA 94080; and Ulka Vijapurkar, residing at One DNA Way, South San Francisco, CA 94080; and Jeffrey Wallin, residing at One DNA Way, South San Francisco, CA 94080; and Leisa Johnson, residing at One DNA Way, South San Francisco, CA 94080; and Mallika Singh, residing at One DNA Way, South San Francisco, CA 94080; made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on September 10, 2008, which application was assigned U.S. patent application serial number 12/208,227, and is entitled COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE and for which we filed an International Patent Application on September 10, 2008, which application was assigned entitled PCT/US2008/075883, Application Number International Patent COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE.

AND WHEREAS, Genentech, Inc., a corporation organized and existing under and by virtue of the laws of the state of Delaware, having an office and place of business at 1 DNA Way, South San Francisco, California 94080 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

Docket No: 01005.014US1 & PCT Serial No.: 12/208,227 & PCT/US2008/075883 Filing Date: September 10, 2008

Page 2 of 3

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this _/O_ day of	
Och ber , 2008.	
Men f S	
Marcia Belvin	
IN TESTIMONY WHEREOF, I have hereunto set my hand this 10 day of	
Dotologe, 2008.	
Lori Friedman	
IN TESTIMONY WHEREOF, I have hereunto set my hand this day of, 2008.	
Klans Hoeflich	

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of Deepak Sampath IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ Ulka Vijapurkar IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of .2008 ر Jeffrey Wallin IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of , 2008. Leisa Johnson IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of , 2008.

Docket No: 01005.014US1 & PCT Serial No.: 12/208,227 & PCT/US2008/075883 Filing Date: September 10, 2008

Page 3 of 3

PATENT REEL: 031548 FRAME: 0843

WHEREAS, We, Marcia Belvin, residing at One DNA Way, South San Francisco. CA 94080; and Lori Friedman, residing at One DNA Way, South San Francisco, CA 94080; and Klaus Hoeflich, residing at One DNA Way, South San Francisco, CA 94080; and Deepak Sampath, residing at One DNA Way, South San Francisco, CA 94080; and Ulka Vijapurkar, residing at One DNA Way, South San Francisco, CA 94080; and Jeffrey Wallin, residing at One DNA Way, South San Francisco, CA 94080; and Leisa Johnson, residing at One DNA Way, South San Francisco, CA 94080; and Mallika Singh, residing at One DNA Way, South San Francisco, CA 94080; made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on September 10, 2008, which application was assigned U.S. patent application serial number 12/208,227, and is entitled COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE and for which we filed an International Patent Application on September 10, 2008, which application was assigned entitled PCT/US2008/075883. **Application** Number International Patent COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE.

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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

Docket No: 01005.014US1 & PCT Serial No.: 12/208,227 & PCT/US2008/075883

Filing Date: September 10, 2008

Page 2 of 3

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AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTI	MONY WHE	REOF, I have hereunto set my hand this day of
	, 2008.	
		Marcia Belvin
IN TESTI	MONY WHE	REOF, I have hereunto set my hand this day of
	, 2008.	
		Lori Friedman
IN TEST	IMONY WHE	EREOF, I have hereunto set my hand this 13 day of
October	, 2008.	
		KHorthu
	- *	Klaus Hoeflich

IN TESTIMONY WHEREOF, I have hereunto set my hand this _ 2008. Deepak Sampath IN TESTIMONY WHEREOF, I have hereunto set my hand this _ Ulka Vijapurkar IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of 2008. Jeffrey Wallin IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of Leisa Johnson IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of , 2008.

Docket No: 01005.014US1 & PCT Serial No.: 12/208,227 & PCT/US2008/075883 Filing Date : September 10, 2008

Page 3 of 3

PATENT REEL: 031548 FRAME: 0846

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WHEREAS, We, Marcia Belvin, residing at One DNA Way, South San Francisco, CA 94080; and Lori Friedman, residing at One DNA Way, South San Francisco, CA 94080; and Klaus Hoeflich, residing at One DNA Way, South San Francisco, CA 94080; and Deepak Sampath, residing at One DNA Way, South San Francisco, CA 94080; and Ulka Vijapurkar, residing at One DNA Way, South San Francisco, CA 94080; and Jeffrey Wallin, residing at One DNA Way, South San Francisco, CA 94080; and Leisa Johnson, residing at One DNA Way, South San Francisco, CA 94080; and Mallika Singh, residing at One DNA Way, South San Francisco, CA 94080; made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on September 10, 2008, which application was assigned U.S. patent application serial number 12/208,227, and is entitled COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE and for which we filed an International Patent Application on September 10, 2008, which application was assigned entitled and PCT/US2008/075883, Number International Patent Application COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE.

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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

Docket No: 01005.014US1 & PCT Serial No.: 12/208,227 & PCT/US2008/075883 Filing Date: September 10, 2008 Page 2 of 3

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

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, 2008.	
	Marcia Belvin
IN TESTIMONY WHEREOF, I ha	we hereunto set my hand this day of
, 2008.	
	Lori Friedman
IN TESTIMONY WHEREOF, I h	Lori Friedman ave hereunto set my hand this day of

IN TESTIMONY WHEREOF, I have hereunto set my hand this 15 day of DC7385R , 2008. Deepak Sampath IN TESTIMONY WHEREOF, I have hereunto set my hand this Ulka Vijapurkar IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of Jeffrey Wallin IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of 2008. Leisa Johnson IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of 2008.

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Page 3 of 3

Serial No.: 12/208,227 & PCT/US2008/075883 Filing Date: September 10, 2008

> PATENT REEL: 031548 FRAME: 0849

WHEREAS, We, Marcia Belvin, residing at One DNA Way, South San Francisco. CA 94080; and Lori Friedman, residing at One DNA Way, South San Francisco, CA 94080; and Klaus Hoeflich, residing at One DNA Way, South San Francisco, CA 94080; and Deepak Sampath, residing at One DNA Way, South San Francisco, CA 94080; and Ulka Vijapurkar, residing at One DNA Way, South San Francisco, CA 94080; and Jeffrey Wallin, residing at One DNA Way, South San Francisco, CA 94080; and Leisa Johnson, residing at One DNA Way, South San Francisco, CA 94080; and Mallika Singh, residing at One DNA Way, South San Francisco, CA 94080; made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on September 10, 2008, which application was assigned U.S. patent application serial number 12/208,227, and is entitled COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE and for which we filed an International Patent Application on September 10, 2008, which application was assigned entitled PCT/US2008/075883, International Patent Application Number COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE.

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Docket No. 01005.014US1 & PCT Serial No.: 12/208,227 & PCT/US2008/075883 Filing Date : September 10, 2008

Page 2 of 3

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IN TESTIMONY WHEREOF, I have hereunto set my hand this, 2008.	_ day of
No. 1. Debin	
Marcia Belvin	
IN TESTIMONY WHEREOF, I have hereunto set my hand this, 2008.	day of
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Lori Friedman	
IN TESTIMONY WHEREOF, I have hereunto set my hand this, 2008.	day of
Klaus Hoeflich	

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	, 2008.		•		
	·	·	Leisa Johnson		
	IMONY WH	EREOF, I have here	Leisa Johnson	day of	

Docket No: 01005.014US1 & PCT Serial No.: 12/208,227 & PCT/US2008/075883 Filing Date: September 10, 2008 Page 3 of 3

> PATENT REEL: 031548 FRAME: 0852

WHEREAS, We, Marcia Belvin, residing at One DNA Way, South San Francisco, CA 94080; and Lori Friedman, residing at One DNA Way, South San Francisco, CA 94080; and Klaus Hoeflich, residing at One DNA Way, South San Francisco, CA 94080; and Deepak Sampath, residing at One DNA Way, South San Francisco, CA 94080; and Ulka Vijapurkar, residing at One DNA Way, South San Francisco, CA 94080; and Jeffrey Wallin, residing at One DNA Way, South San Francisco, CA 94080; and Leisa Johnson, residing at One DNA Way, South San Francisco, CA 94080; and Mallika Singh, residing at One DNA Way, South San Francisco, CA 94080; made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on September 10, 2008, which application was assigned U.S. patent application serial number 12/208,227, and is entitled COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE and for which we filed an International Patent Application on September 10, 2008, which application was assigned entitled PCT/US2008/075883. and Application International Patent Number COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE.

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	IN TESTIMONY WHEREOF, I have hereunto set my hand this	day of	
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	Marcia Belvin		,
	IN TESTIMONY WHEREOF, I have hereunto set my hand this	day of	
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	Lori Friedman		
	IN TESTIMONY WHEREOF, I have hereunto set my hand this, 2008.	day of	
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	Klaus Hoeflich		

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	, 2008.	<u></u>	Jeffrey Wall	day of

Docket No: 01005.014US1 & PCT Serial No.: 12/208,227 & PCT/US2008/075883 Filing Date: September 10, 2008 Page 3 of 3

WHEREAS, We, Marcia Belvin, residing at One DNA Way, South San Francisco, CA 94080; and Lori Friedman, residing at One DNA Way, South San Francisco, CA 94080; and Klaus Hoeflich, residing at One DNA Way, South San Francisco, CA 94080; and Deepak Sampath, residing at One DNA Way, South San Francisco, CA 94080; and Ulka Vijapurkar, residing at One DNA Way, South San Francisco, CA 94080; and Jeffrey Wallin, residing at One DNA Way, South San Francisco, CA 94080; and Leisa Johnson, residing at One DNA Way, South San Francisco, CA 94080; and Mallika Singh, residing at One DNA Way, South San Francisco, CA 94080; made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on September 10, 2008, which application was assigned U.S. patent application serial number 12/208,227, and is entitled COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE and for which we filed an International Patent Application on September 10, 2008, which application was assigned entitled PCT/US2008/075883, Application Number International Patent COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE.

AND WHEREAS, Genentech, Inc., a corporation organized and existing under and by virtue of the laws of the state of <u>Delaware</u>, having an office and place of business at <u>1 DNA</u> Way, South San Francisco, California 94080 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

Docket No. 01005.014US1 & PCT Serial No.: 12/208,227 & PCT/US2008/075883 Filing Date : September 10, 2008

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AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

	IN TESTIMONY WHEREOF, I have hereunto set my hand this	day of
	, 2008.	
	Marcia Belvin	
	IN TESTIMONY WHEREOF, I have hereunto set my hand this, 2008.	day of
1	Lori Friedman	
	IN TESTIMONY WHEREOF, I have hereunto set my hand this	day of
	Klans Hoeflic	

IN TESTIMONY WHEREOF, I have hereunto set my hand this _ , 2008. Deepak Sampath IN TESTIMONY WHEREOF, I have hereunto set my hand this __ 2008. Ulka Vijapurkar IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of Jeffrey Wallin IN TESTIMONY WHEREOF, I have hereunto set my hand this 1375 day of **bU**R , 2008. Leisa Johnson IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ 2008.

Docket No: 01005.014US1 & PCT

Page 3 of 3

Serial No.: 12/208,227 & PCT/US2008/075883 Filing Date: September 10, 2008

> PATENT REEL: 031548 FRAME: 0858

WHEREAS, We, Marcia Belvin, residing at One DNA Way, South San Francisco, CA 94080; and Lori Friedman, residing at One DNA Way, South San Francisco, CA 94080; and Klaus Hoeflich, residing at One DNA Way, South San Francisco, CA 94080; and Deepak Sampath, residing at One DNA Way, South San Francisco, CA 94080; and Ulka Vijapurkar, residing at One DNA Way, South San Francisco, CA 94080; and Jeffrey Wallin, residing at One DNA Way, South San Francisco, CA 94080; and Leisa Johnson, residing at One DNA Way, South San Francisco, CA 94080; and Mallika Singh, residing at One DNA Way, South San Francisco, CA 94080; made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on September 10, 2008, which application was assigned U.S. patent application serial number 12/208,227, and is entitled COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE and for which we filed an International Patent Application on September 10, 2008, which application was assigned entitled PCT/US2008/075883. and Number International Patent Application COMBINATIONS OF PHOSPHOINOSITIDE 3-KINASE INHIBITOR COMPOUNDS AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE.

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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

Docket No. 01005.014US1 & PCT Scrial No.: 12/208,227 & PCT/US2008/075883 Filing Date: September 10, 2008

Page 2 of 3

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHERE	OF, I have hereunto set my hand this day of
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, 2008.	
	Lori Friedman
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Docket No: 01005.014US1 & PCT Serial No.: 12/208,227 & PCT/US2008/075883 Filing Date: September 10, 2008 Page 3 of 3

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Ulka Vijapurkar	
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Jeffrey Wallin	
Jeniey Wallin	
IN TESTIMONY WHEREOF, I have hereunto set my hand this day of	
, 2008.	
Leisa Johnson	
Lejsa Johnson	
17th day of	
IN TESTIMONY WHEREOF, I have hereunto set my hand this 13th day of	
<u>October</u> , 2008.	
Malita Sing L	
- Mallika Singh	

PATENT REEL: 031548 FRAME: 0861

RECORDED: 11/05/2013