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# EXHIBIT 25

# UNITED STATES DISTRICT COURT DISTRICT OF MASSACHUSETTS

AMGEN INC.,	)	
Plaintiff,	)	Civil Action No.: 05 Civ. 12237 WGY
v.	į	
F. HOFFMANN-LA ROCHE LTD,	)	
ROCHE DIAGNOSTICS GMBH, AND	)	
HOFFMANN LA ROCHE INC.,	)	
	)	
Defendants.	)	

AMGEN'S OPPOSITION TO DEFENDANTS' MOTIONS TO DISMISS FOR LACK OF PERSONAL JURISDICTION (AND ALTERNATIVE REQUEST FOR LEAVE TO TAKE JURISDICTIONAL DISCOVERY)

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### I. INTRODUCTION

In this action, Amgen seeks a declaratory judgment that the importation, use, offer for sale and sale in the United States of the Defendants' "CERA" drug product containing recombinant human EPO (to which the Defendants have attached a biologically inert polymer called "polyethylene glycol," or "PEG") will infringe certain claims in six Amgen patents.<sup>1</sup>

Last November, it appeared that Defendants were completing their clinical tests of PEG-EPO and would soon seek approval from the FDA to market the product in the United States.

Amgen filed this action against those Roche companies that had been publicly identified as manufacturing, importing and administering PEG-EPO to patients in the United States, including in Massachusetts. Based on Defendants' public descriptions of their PEG-EPO product and its reported effects on patients, Amgen believes that the importation, use, and sale of PEG-EPO by those companies will infringe Amgen's patents.

Amgen named Roche Diagnostics GmbH ("Roche Germany") as a defendant because Roche Germany purchased a recombinant human EPO-producing cell line from a Massachusetts-based company, Genetics Institute, and has been using those cells to produce recombinant human EPO ever since, and the publicly available evidence indicated that Roche Germany was adding PEG to the recombinant human EPO produced by those cells and shipping that PEG-EPO to the United States (this latter fact has now been confirmed by the Defendants in their motions to dismiss). Amgen named Hoffmann La Roche, Inc. ("Roche US"), a company in New Jersey, as a defendant because Roche US identifies itself as the "U.S. prescription drug unit of the Roche Group," *i.e.*, the company that distributes the Roche Group's pharmaceutical products in the U.S., and it was reasonable to believe that this included PEG-EPO (this has also now been

<sup>1</sup> The Roche defendants have referred to this "pegylated" EPO product at various times as "CERA," "Ro50-3821," and/or "R744"; it is referred to herein as "PEG-EPO" or "pegylated EPO."

confirmed by the Defendants in their motions). Amgen named F. Hoffmann-La Roche Ltd. ("Roche Switzerland"), a Swiss company, as a defendant because Roche Switzerland serves as the organizational unit for the Roche Group's pharmaceutical operations and had publicly identified itself as the sponsor of Roche's clinical trials in which PEG-EPO was being administered to patients in the United States (including in Massachusetts).<sup>2</sup>

Roche Switzerland and Roche Germany (collectively "the foreign Roche defendants") have moved to dismiss this action under Fed. R. Civ. P. 12(b)(2) for lack of personal jurisdiction. In their motion papers,<sup>3</sup> the foreign Roche defendants claim to have had very little contact with Massachusetts. But the public record, and the admissions by the foreign Roche defendants in their motion papers, contradict that assertion. As noted above, Roche Germany (which was formerly known as Boehringer Mannheim GmbH) has been transacting business involving recombinant human EPO (and cell lines that produce that EPO) under development and licensing agreements with Genetics Institute, a company headquartered in Massachusetts, since the early 1980's. In the mid-1980's, Genetics Institute transferred substantial amounts of recombinant human EPO, as well as the cell lines that produce that EPO, to Roche Germany, and over the years, Roche Germany has produced recombinant human EPO using those cells and has paid Genetics Institute more than \$100 million under those agreements.

The public record also indicates (and the Defendants now admit) that the PEG-EPO that Roche Germany has been manufacturing and shipping into the United States for the last several years has been administered to patients in Massachusetts. And both of the foreign Roche

<sup>&</sup>lt;sup>2</sup> Amgen is concurrently filing a First Amended Complaint to reflect the fact that on April 19, 2006, the Defendants filed a Biologic License Application ("BLA") with the FDA seeking approval to market their PEG-EPO product, but believes that the foreign Roche defendants were subject to personal jurisdiction in Massachusetts as of the filing date of the original Complaint (November 8, 2005).

<sup>&</sup>lt;sup>3</sup> Docket Nos. 39 and 40 (the "Roche Switzerland Memo" and "Roche Germany Memo," respectively).

defendants admit that they have contracts with Massachusetts companies, that Roche Switzerland sponsors clinical trials for experimental drugs in Massachusetts, and that both Defendants regularly send their employees into Massachusetts for business purposes (indeed, on the last page of its memorandum, Roche Switzerland admits that at least 137 of its employees came to Massachusetts in 2005 alone to conduct such business).

Amgen need only make a *prima facie* showing that defendants are subject to personal jurisdiction to defeat the instant motions to dismiss. Here, the public record and the admissions by the foreign Roche defendants regarding their contacts with Massachusetts are sufficient to satisfy this *prima facie* requirement for both specific and general personal jurisdiction. Both of the foreign Roche defendants have conducted substantial, regular, and systematic activities in Massachusetts, and much of that activity is related to the recombinant human EPO that is the basis for the current cause of action.<sup>4</sup>

### II. ARGUMENT

Because the foreign Roche defendants have challenged personal jurisdiction, Amgen bears the burden of establishing that they are subject to personal jurisdiction in this Court.<sup>5</sup> In a patent case such as this, the law of the Federal Circuit applies in resolving such motions.<sup>6</sup> The

<sup>&</sup>lt;sup>4</sup> Alternatively, if the Court believes that the facts currently of record are not sufficient to determine that the foreign Roche defendants are subject to personal jurisdiction here, Amgen requests that it be granted leave to take discovery from the Defendants to supplement that record. The motion papers raise many questions about the scope and purpose of their business activities in Massachusetts, and those questions cannot currently be answered because the foreign Roche defendants have not been forthcoming in disclosing their contacts with Massachusetts. Amgen should be permitted to pursue jurisdictional discovery so as to provide this Court with a complete factual record.

<sup>&</sup>lt;sup>5</sup> Daynard v. Ness, Motley, Loadholt, Richardson & Poole, P.A., 284 F. Supp. 2d 204, 211 (D. Mass. 2003) (Young, C.J.).

<sup>&</sup>lt;sup>6</sup> Deprenyl Animal Health, Inc. v. Univ. of Toronto Innov. Found., 297 F.3d 1343, 1348 (Fed. Cir. 2002). In their motion papers, Defendants rely on a series of First Circuit cases to support their claims for lack of personal jurisdiction. See, e.g., Roche Switzerland Memo at pp. 9-13 and Roche Germany Memo at pp. 5-14. Defendants' reliance on First Circuit law is misplaced given that Federal Circuit law applies to motions to dismiss for lack of personal jurisdiction in patent cases. Hildebrand v. Steck Mfg. Company,

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Federal Circuit applies a "prima facie" test to such motions, whereby "a plaintiff need only to make a prima facie showing that defendants are subject to personal jurisdiction."

#### A. The legal standards for personal jurisdiction

A two-prong inquiry governs whether this Court may properly exercise personal jurisdiction over the foreign Roche defendants. First, each Defendant must be amenable to process in Massachusetts. Second, the Court's exercise of personal jurisdiction over the Defendant must comply with the requirements of federal Due Process as delineated in International Shoe Co. 8 and its progeny, 9 Alternatively, because Amgen's claims against the foreign Roche defendants arise under federal law, 10 if either defendant is beyond the jurisdictional reach of any single state, this Court may nevertheless exercise jurisdiction over that defendant if its contacts with the nation as a whole are sufficient to satisfy Due Process. 11

#### 1. Amenability to service of process

Service of process in a federal action is governed generally by Fed. R. Civ. P. 4. A defendant is amenable to service if it "could be subjected to the jurisdiction of a court of general jurisdiction in the state in which the district is located." As the Federal Circuit has explained, "[s]atisfaction of this standard may be attained in a variety of ways." 13

Inc., 279 F.3d 1351, 1354 (Fed. Cir. 2002) ("We apply Federal Circuit law to determine whether the district court properly exercised personal jurisdiction over out-of-state defendants in patent infringement cases."); Electronics For Imaging, Inc. v. Coyle, 340 F.3d 1344, 1348 (Fed. Cir. 2003) (finding that the district court erred by applying Ninth Circuit law to a motion under Fed. R. Civ. P. 12(b)(2) in a declaratory judgment action brought against an out-of-state patentee).

<sup>&</sup>lt;sup>7</sup> Elecs. For Imaging, Inc. v. Coyle, 340 F.3d 1344, 1349 (Fed. Cir. 2003).

<sup>&</sup>lt;sup>8</sup> International Shoe Co. v. Washington, 326 U.S. 310 (1945).

<sup>&</sup>lt;sup>9</sup> LSI Indus. Inc. v. Hubbell Lighting, Inc., 232 F.3d 1369, 1371 (Fed. Cir. 2000).

<sup>&</sup>lt;sup>10</sup> The Patent Act, 35 U.S.C. § 1 et seq.

<sup>11</sup> See Fed. R. Civ. P. 4(k)(2); Cochran Consulting, Inc. v. Uwatec USA, Inc., 102 F.3d 1224, 1232 (Fed. Cir. 1996); U.S. v. Swiss American Bank, Ltd., 116 F. Supp. 2d 217, 220 (D. Mass. 2000) (Young, C.J.).

<sup>12</sup> Fed. R. Civ. P. 4(k)(1)(A).

<sup>&</sup>lt;sup>13</sup> LSI Indus., 232 F.3d at 1371.

Massachusetts has at least two different statutes under which an out-of-state defendant may be amenable to service of process; a "doing business" statute 14 and a "long arm" statute. 15 Section 38, the "doing business" statute, allows service of process on out-of-state defendants who "engage in" or "solicit" business in Massachusetts:

In an action against a foreign corporation, except an insurance company, which has a usual place of business in the commonwealth, or with or without such usual place of business, is engaged in or soliciting business in the commonwealth, permanently or temporarily, service may be made in accordance with the preceding section relative to service on domestic corporations in general, instead of upon the state secretary under section 15.10 of subdivision A of Part 15 of chapter 156D.16

For service to be proper under section 38, the defendant's business activities must "affect the commerce of Massachusetts substantially." The cause of action need not relate to the defendant's activities in Massachusetts. 18

A defendant may also be amenable to process, and thus subject to "specific" personal jurisdiction, under the Massachusetts "long-arm" statute, which allows service of process on outof-state defendants for causes of action arising from in-state business activity:

A court may exercise personal jurisdiction over a person, who acts directly or by an agent, as to a cause of action in law or equity arising from the person's

<sup>14</sup> Mass. Gen. Laws Ann., ch. 223, § 38.

<sup>15</sup> Mass. Gen. Laws Ann., ch. 223A, § 3.

<sup>&</sup>lt;sup>16</sup> Mass. Gen. Laws. Ann., ch. 223, § 38 (emphases added). The "preceding section," § 37, provides; "In an action against a domestic corporation other than one mentioned in the preceding paragraph, service shall be made upon the president, treasurer, clerk, resident agent appointed pursuant to section 49 of chapter 156D, cashier, secretary, agent or other officer in charge of its business, or, if no such officer is found within the county, upon any member of the corporation." Mass. Gen. Laws. Ann., ch. 223, § 37.

<sup>&</sup>lt;sup>17</sup> Walsh v. National Seating Co., Inc., 411 F. Supp. 564, 574 (D. Mass. 1976).

<sup>18</sup> Id. at 575 ("where the activities of the corporation had a sufficiently substantial impact on the Commonwealth, the connection between the cause of action and the activities need not be present"); Campbell v. Frontier Fishing & Hunting, Ltd., 405 N.E.2d 989, 991 (Mass. App. 1980) ("The fact that the cause of action arose in Canada does not defeat Massachusetts' claim to personal jurisdiction of Frontier under § 38, because this statute 'does not restrict service on resident agents of foreign corporations to causes of action arising within the Commonwealth." (quoting Trojan Eng'g Corp. v. Green Mountain Power Corp., 200 N.E. 117, 120 (Mass. 1936)).

(a) transacting any business in this commonwealth; ....<sup>19</sup>

This Court need not, however, look solely at whether the literal requirements of the Massachusetts long-arm statute have been met. Because the foreign Roche defendants have not challenged whether they could have been properly served under the long-arm statute or § 38, and instead rest their motions on constitutional Due Process, the inquiry here turns on whether exercise of specific personal jurisdiction is consistent with Due Process.<sup>20</sup>

### 2. Due Process

Federal Due Process requires that a defendant have certain "minimum contacts" with Massachusetts such that litigating the suit here does not offend "traditional notions of fair play and substantial justice." A defendant is subject to *general* personal jurisdiction in a forum where it has "continuous and systematic general business contacts." In such a forum, a suit may be brought against a defendant "even when the cause of action has no relation to those contacts." General personal jurisdiction rests on the facts of each particular case.<sup>24</sup>

In contrast, the Federal Circuit's Due Process test for specific personal jurisdiction in a

<sup>&</sup>lt;sup>19</sup> Mass. Gen. Laws Ann., ch. 223A, § 3. Despite the subsequent enactment of the Massachusetts long-arm statute, "Section 38 is independently viable and has not been supplanted by [the long-arm statute]." *Campbell*, 405 N.E.2d at 990. *See also* 16 James W. Moore, *Moore's Federal Practice* § 108.61 (3d ed. 2005).

<sup>&</sup>lt;sup>20</sup> Trintec Indus., Inc. v. Pedre Promotional Prods., Inc., 395 F.3d 1275, 1279 (Fed. Cir. 2005); Elecs. For Imaging, 340 F.3d at 1349-50; Akro Corp. v. Luker, 45 F.3d 1541, 1544 (Fed. Cir. 1995); Freedom Wireless, Inc. v. Boston Commun. Grp., Inc. 218 F. Supp. 2d 19, 23 (D. Mass. 2002) ("[B]ecause the Massachusetts Supreme Judicial Court has interpreted the state's long-arm statute as coextensive with the limits of due process, it is possible to "sidestep the statutory inquiry and proceed directly to the constitutional analysis."), quoting Daynard v. Ness, 290 F.3d 42, 52 (1st Cir. 2002); Moldflow Corp. v. Simcon, Inc., 296 F. Supp. 2d 34, 39 (D. Mass. 2003) (same); Cognex Corp. v. Lemelson Med., Educ. & Research Found., L.P., 67 F. Supp. 2d 5, 7 (D. Mass. 1999) (same).

<sup>&</sup>lt;sup>21</sup> International Shoe Co. v. Washington, 326 U.S. 310, 316 (1945).

<sup>&</sup>lt;sup>22</sup> Helicopteros Nacionales de Colombia, S.A. v. Hall, 466 U.S. 408, 416 (1984).

<sup>&</sup>lt;sup>23</sup> LSI Indus. Inc. v. Hubbell Lighting, Inc., 232 F.3d 1369, 1375 (Fed. Cir. 2000).

<sup>&</sup>lt;sup>24</sup> Id. ("Neither the United States Supreme Court nor this court has outlined a specific test to follow when analyzing whether a defendant's activities within a state are 'continuous and systematic.' Instead, a court must look at the facts of each case to make such a determination.").

patent case is a three-prong test: (1) the defendant must have "purposefully directed" activities at the forum, (2) the claim must arise from or relate to those activities, and (3) the assertion of personal jurisdiction is not unreasonable and unfair. A defendant has "purposefully directed" its activities to a forum state when it "deliberately has engaged in significant activities within a State, or has created continuing obligations between himself and residents of the forum. Eleven a single act can support [specific] jurisdiction," so long as it creates a "substantial connection" with the forum, as opposed to an "attenuated affiliation." If the plaintiff makes a prima facie showing of minimum contacts under the first two prongs of the test, the burden switches to the defendant to "present a compelling case that that the presence of some other considerations would render jurisdiction unreasonable."

# B. The foreign Roche defendants are subject to specific personal jurisdiction in Massachusetts

The activities of the foreign Roche defendants regarding the distribution and use of their recombinant human EPO product in Massachusetts are sufficient to satisfy the Due Process requirements for specific personal jurisdiction.

### 1. Roche Germany

Roche Germany is a German corporation with its headquarters in Mannheim, Germany and production facilities in Mannheim and Penzberg, Germany.<sup>29</sup> It is a wholly owned subsidiary of Roche Deutschland Holding GmbH, another German corporation, which is a wholly-owned subsidiary of F. Hoffmann-La Roche AG (located in Basel, Switzerland), which is itself a

<sup>&</sup>lt;sup>25</sup> 3D Systems, Inc. v. Aarotech Labs., Inc., 160 F.3d 1373, 1378 (Fed. Cir. 1998).

<sup>&</sup>lt;sup>26</sup> Burger King Corp. v, Rudzewicz, 471 U.S. 462, 476 (1985).

<sup>&</sup>lt;sup>27</sup> Burger King Corp. v. Rudzewicz, 471 U.S. at 475 & n. 18.

<sup>&</sup>lt;sup>28</sup> Akro Corp. v. Luker, 45 F.3d 1541, 1546 (Fed. Cir. 1995), quoting Burger King, 471 U.S. at 477.

<sup>&</sup>lt;sup>29</sup> See Roche Germany Memo at p. 3.

wholly-owned subsidiary of Roche Holding AG (also located in Basel, Switzerland).<sup>30</sup>

Roche Germany admits that it manufactures the pegylated recombinant human EPO that is the subject of this action, that it ships its PEG-EPO to the United States, and that its PEG-EPO is administered to patients in Massachusetts.<sup>31</sup>

Roche Germany and its declarant, Mr. Meisiek, also admit that "Roche Germany currently maintains a limited number of contracts with partners in Massachusetts" that are "all either licensing or research and development agreements pertaining to diagnostics or pharmaceuticals."32 What Roche Germany and Mr. Meisiek don't tell this Court, but which was revealed in the Trustees of Columbia University v. Roche Diagnostics GmbH case<sup>33</sup> (a patent infringement case filed in 1993 that went to trial before Judge Gertner in 2001), is that among these "contracts with partners in Massachusetts" were several agreements<sup>34</sup> with Genetics Institute, Inc. (a company headquartered in Cambridge, Massachusetts) under which Genetics Institute transferred recombinant human EPO. 35 cell lines that produce that recombinant human EPO<sup>36</sup> and related know-how, and a license to patents directed to such technology, to Boehringer

<sup>&</sup>lt;sup>30</sup> See Declaration of Michael R. Gottfried, Esq. submitted herewith (hereinafter "Gottfried Decl."), Exh.

<sup>&</sup>lt;sup>31</sup> See Roche Germany Memo at p. 4. Moreover, the results of Roche's preclinical studies on PEG-EPO were presented at scientific conferences in the United States by Roche scientists employed in Mannheim and Penzberg (i.e., presumably employees of Roche Germany. See Gottfried Decl., Exh. L.

<sup>32</sup> Declaration of Martin Meisiek for Defendant Roche Diagnostics GmbH (Docket No. 47) at ¶ 14; Roche Germany Memo at pp. 1, 4.

<sup>&</sup>lt;sup>33</sup> The Trustees of Columbia University in the City of New York v. Roche Diagnostics GmbH (formerly known as Boehringer Mannheim GmbH), Civ. No. 93-11512 NG (D. Mass.).

<sup>&</sup>lt;sup>34</sup> See Gottfried Decl., Exh. B at pp. 780 and 782 and Exh. C at pp. 1026-27, 1042-45, and 1050-51 (Roche Germany entered into an initial licensing and development agreement with Genetics Institute in 1985 and supplemental agreements in 1988, 1991, and 1996).

<sup>35</sup> See Gottfried Decl., Exh. B at pp. 741-742, 743 and 746 and Exh. C at pp. 1043-44 (Genetics Institute shipped bulk human recombinant EPO to Roche Germany in November 1985 and from 1988-1991, which Roche Germany then used in clinical trials or sold).

<sup>&</sup>lt;sup>36</sup> These were referred to as the "DN2-3α3" cell line, See Gottfried Decl., Exh. B at pp. 734-35 ("On March 4, 1986, GI transferred to Roche the EPO production clone DN2-3alpha3. DN2-3alpha3 is the only production clone used by Roche to make EPO for sale."), 743, 767, 791, and 805.

Mannheim GmbH, which later became Roche Germany.<sup>37</sup>

Over the subsequent years, Roche Germany has used those cell lines and know-how at its production facilities in Germany to produce the Defendants' second-best-selling drug.<sup>38</sup> a recombinant human EPO product generically known as "epoetin beta" that is sold in Europe and other non-U.S. markets as a pharmaceutical composition called NeoRecormon.<sup>39</sup> Roche Germany has paid Genetics Institute more than \$100 million under those agreements. 40 The public record indicates that Roche Germany uses those same cells and methods to produce the "epoetin beta" contained in the Defendants' PEG-EPO product that is being administered to patients in Massachusetts and is accused of infringing Amgen's patents in this action. 41 Consequently, the current cause of action certainly relates to Roche Germany's purposeful contacts with Massachusetts (i.e., its entry into and performance under the agreements with Massachusetts-based Genetics Institute and its use of the cell lines obtained from Genetics Institute to produce the product accused of infringement here).

Roche Germany's challenge to specific jurisdiction is based on its assertion that it has "no control over where the U.S. Defendant, [Roche US], distributes [PEG-EPO]."42 However, the touchstone of the specific jurisdiction analysis regarding this issue is whether Roche Germany should have reasonably expected that the PEG-EPO would be used in Massachusetts,

<sup>&</sup>lt;sup>37</sup> See Gottfried Decl., Exh. C at pp. 996-997 and 1005 and Exh. D.

<sup>38</sup> See Gottfried Decl., Exh. E at p. 8 (showing NeoRecormon sales at 2.25 billion Swiss Francs, making it Roche's second-best-selling drug).

<sup>&</sup>lt;sup>39</sup> See Gottfried Decl., Exh. F (a finding by the European Agency for the Evaluation of Medicinal Products that NeoRecormon is epoetin beta, a recombinant human EPO).

<sup>&</sup>lt;sup>40</sup> See Gottfried Decl., Exh. B at pp. 796-799 and 814 (Roche Germany paid Genetics Institute more than \$100 million dollars for EPO made by Genetics Institute and as royalties on the resale of that EPO).

<sup>&</sup>lt;sup>41</sup> See Gottfried Decl., Exh. G (showing that medical institutions around the U.S. (including the National Cancer Institute and the Dana-Farber Cancer Institute) define the Defendants' PEG-EPO product ("Ro50-3821") as "methoxypolyethylene glycol epoetin beta").

<sup>&</sup>lt;sup>42</sup> Roche Germany Memo at p. 13.

such that it would have fair warning that its activities might subject it to litigation in this forum.<sup>43</sup> It is inconceivable that Roche Germany would not have known from the beginning that the PEG-EPO it has been shipping to its partner Roche US in New Jersey was destined for use in clinical trials being conducted in various States, including Massachusetts. At most, Roche Germany would only have had to look on the Roche Switzerland website to determine that its PEG-EPO product was being sent into Massachusetts and administered to Massachusetts residents.

Roche Germany has engaged in substantial activities within Massachusetts that are directly related to the current cause of action. This is sufficient to satisfy the Federal Circuit's test for specific jurisdiction.

#### 2. Roche Switzerland

The Defendants filed for approval to administer PEG-EPO to patients in the U.S. in 2001.44 On their website (www.roche-trials.com/patient/studies/drugplst\_RO0503821.html), the Defendants identify eleven PEG-EPO clinical trials conducted in Massachusetts, beginning in 2002. 45 On the website, Roche Switzerland is identified as the "sponsor" for such trials, i.e., the company that "takes responsibility for and initiates [the] clinical investigation." When the data from these PEG-EPO clinical trials was presented to the medical community, representatives from Roche Switzerland came to the U.S. to present the data. 47 and last week, the Defendants

<sup>43</sup> World-Wide Volkswagen Corp. v. Woodson, 100 S.Ct. 559, 567 (1980) (adopting the "stream-ofcommerce" theory); Beverly Hills Fan Co. v. Royal Sovereign Corp., 21 F.3d 1558, 1565 (Fed. Cir. 1994) (adopting the stream-of-commerce test for specific jurisdiction in patent cases).

<sup>&</sup>lt;sup>44</sup> See Declaration of Iris Kingma-Johnson in Support of [the Roche Defendants'] Motion to Dismiss for Lack of Subject Matter Jurisdiction and Failure to State a Claim for Which Relief May Be Granted (Dkt. No. 46) at ¶¶ 5-7 ("In order to begin clinical trials . . . the drug's sponsor must file an 'investigational new drug application' or 'IND' for approval to administer the drug to humans. Once an IND is approved, clinical trials may begin. . . . The IND for use of CERA in patients . . . was filed in the United States on December 4, 2001.").

<sup>&</sup>lt;sup>45</sup> See Gottfried Decl., Exh. H (identifying seven such trials in Boston and four in Springfield).

<sup>46</sup> Id. and 21 C.F.R. § 312.3(b).

<sup>&</sup>lt;sup>47</sup> See Gottfried Decl., Exh. I.

collectively told this Court that they had filed "their" Biologic License Application ("BLA") for the PEG-EPO product.<sup>48</sup>

It is inconceivable that the PEG-EPO clinical trials in Massachusetts could have been initiated and conducted without contracts and substantial payments between the sponsor and the physicians in Massachusetts who recruited the patients for the studies and administered the PEG-EPO to those patients. These EPO-related activities in Massachusetts constitute substantial activity purposefully directed toward Massachusetts that is directly related to Amgen's cause of action here and renders Roche Switzerland subject to specific personal jurisdiction under the Federal Circuit test. 49

## C. The foreign Roche defendants are subject to general personal jurisdiction in Massachusetts

On a *prima facie* basis, the foreign Roche defendants have sufficient contacts with Massachusetts to justify this Court's exercise of general personal jurisdiction over them. In combination with their PEG-EPO-related activities in Massachusetts, the foreign Roche defendants' admitted presence in Massachusetts and their regular and systematic business contacts with Massachusetts companies substantially affect Massachusetts commerce, thus satisfying the requirement for general jurisdiction.

Defendants' motions to dismiss for lack of personal jurisdiction rest on their assertions that they do "not have substantial or 'continuous and systematic' contacts with Massachusetts." <sup>50</sup>

<sup>&</sup>lt;sup>48</sup> See Docket No. 51, the "Supplemental Declaration of Howard Suh, Esq. in Support of Defendants' Motion [sic: Motions] to Dismiss...," which states "In Defendants' Memorandum in Support of their Motion To Dismiss, Defendants' [sic] informed the Court that *their* Biologics License Application ('BLA') for *their* product, CERA..., was expected to be filed with the U.S. Food and Drug Administration ('FDA') this month... By this declaration, Defendants inform the Court that they have submitted *their* BLA to the FDA on April 19, 2006...." (emphases added).

<sup>&</sup>lt;sup>49</sup> 3D Systems, Inc. v. Aarotech Labs., Inc., 160 F.3d 1373, 1378 (Fed. Cir. 1998).

<sup>&</sup>lt;sup>50</sup> Roche Switzerland Memo at p. 3; Roche Germany Memo at p. 3.

The facts of record contradict these assertions.

#### 1. **Roche Switzerland**

Roche Switzerland has continuous and systematic contacts with Massachusetts. On the last page its memorandum, Roche Switzerland reluctantly admits that during last year alone, 137 of its employees came to Massachusetts for the express business purpose of "evaluat[ing] potential technology for future licensing."51 Roche Switzerland also admits that it has a "number of clinical trials sponsorships and licensing agreements with Massachusetts partners."52 Because Roche Switzerland chose to reveal so little to this Court about the nature and number of these contracts and agreements, one can assume that they must be substantial.

Roche Switzerland states unequivocally that "[n]o Massachusetts court has ever exercised jurisdiction over Roche Switzerland."53 Yet Roche Switzerland was a defendant in a Massachusetts state court as recently as four years ago, in which the court found that Roche Switzerland and the other defendants were "doing business" in Massachusetts, and Roche Switzerland agreed not to have the court consider any challenge to personal jurisdiction.<sup>54</sup>

Thus, at the very least, Roche Switzerland has entered into contracts with Massachusetts entities (e.g., doctors, clinics and hospitals) to engage in clinical trials where Massachusetts residents are subjected to Roche Switzerland's experimental drugs, and regularly sends hundreds of its employees into Massachusetts to evaluate business opportunities and to solicit and enter into licensing agreements and other contracts with Massachusetts companies (and presumably

<sup>&</sup>lt;sup>51</sup> Roche Switzerland Memo at p. 14.

<sup>52</sup> Roche Switzerland Memo at p. 4.

<sup>53</sup> Roche Switzerland Memo at p. 4.

<sup>&</sup>lt;sup>54</sup> Ciardi v. F. Hoffmann-La Roche, Ltd., 436 Mass. 53, 55, 762 N.E.2d 303, 306 (Mass. 2002) ("Several defendants also sought to dismiss the plaintiff's complaint for lack of personal jurisdiction . . . . These motions were not addressed by the judge pursuant to agreement by the parties. . . . The defendants, who dominate international markets for vitamin products, are foreign corporations doing business in the Commonwealth of Massachusetts.").

was and is exchanging payments with those companies). Roche Switzerland chose not to disclose the number and extent of those contacts with Massachusetts, but its vague admissions are enough to show that it has been "engaged in or soliciting business in the Commonwealth, permanently or temporarily," and its business activities "affect the commerce of Massachusetts substantially," rendering it subject to general personal jurisdiction in Massachusetts under Mass. Gen. Laws Ann., ch. 223, § 38.55 Based on the public record and its admissions in its motion papers, Roche Switzerland's contacts with Massachusetts constitute the kind of "continuous and systematic" contacts sufficient to justify the exercise of general personal jurisdiction under Federal Due Process.

#### 2. Roche Germany

Roche Germany has similarly been "engaged in or soliciting business in the Commonwealth, permanently or temporarily," and has the continuous and systematic business contacts with Massachusetts to justify general personal jurisdiction. Roche Germany and its declarant, Mr. Meisiek, admit that "Roche Germany currently maintains a limited number of contracts with partners in Massachusetts" that are "all either licensing or research and development agreements pertaining to diagnostics or pharmaceuticals."56 Roche Germany describes its business connections with Massachusetts as amounting to "one unsubstantial physical contact," but admits that this "one contact" involves "intermittent visitation by various employees to the U.S., including Massachusetts . . . to evaluate potential licensing and research co-operations."57

Roche Germany states that it has "neither sued nor been sued in Massachusetts in over a

13

<sup>55</sup> Walsh v. National Seating Co., Inc., 411 F. Supp. 564, 574 and 575 (D. Mass. 1976).

<sup>&</sup>lt;sup>56</sup> Meisiek Declaration (Docket No. 47) at ¶ 14; Roche Germany Memo at p. 4.

<sup>&</sup>lt;sup>57</sup> Roche Germany Memo at p. 4.

Just as has Roche Switzerland, Roche Germany has apparently been sending its employees into Massachusetts to solicit and enter into licensing and research-and-development contracts with Massachusetts companies. Indeed, Roche Germany admitted as recently as 2001 that it was transacting business in Massachusetts. Roche Germany has thus been "engaged in or soliciting business in the Commonwealth, permanently or temporarily," rendering it amenable to service of process under Mass. Gen. Laws. Ann., ch. 223, § 38, and its contacts with Massachusetts constitute the kind of continuous and systematic contacts sufficient to justify the exercise of general personal jurisdiction. <sup>61</sup>

## D. The exercise of personal jurisdiction over the foreign Roche defendants would not be unreasonable or unfair

Amgen has made a *prima facie* showing of minimum contacts under the first two prongs of the Federal Circuit Due Process test. Therefore, to avoid jurisdiction, the foreign Roche defendants "must present a compelling case that the presence of some other considerations

<sup>58</sup> Roche Germany Memo at p. 4.

<sup>&</sup>lt;sup>59</sup> The Trustees of Columbia University in the City of New York v. Roche Diagnostics GmbH (formerly known as Boehringer Mannheim GmbH), Civ. No. 93-11512 NG (D. Mass.).

<sup>60</sup> See Gottfried Decl., Exh. J at ¶ 3.

<sup>&</sup>lt;sup>61</sup> The foreign Roche defendants attempt a favorable contrast of their own contacts with Massachusetts against the defendant bank's contacts in *U.S. v. Swiss American Bank, Ltd.*, 274 F.3d 610 (1<sup>st</sup> Cir. 2001), in which the 1<sup>st</sup> Circuit affirmed this Court's denial of jurisdiction, asserting that "[t]his very Court has recently denied jurisdiction on such a motion where the defendant had far more contacts with the forum state than the instant defendant." Roche Germany Memo at p. 5; Roche Switzerland Memo at p. 5. But Defendants' characterization of the *Swiss American* defendant as having contacts "with the forum state" is somewhat misleading; in that case, this Court was not analyzing the defendant's contacts with Massachusetts or any other State; it was analyzing the defendant's contacts with the United States as a whole. *Swiss American*, 274 F.3d at 619-620.

would render jurisdiction unreasonable." This they cannot do.

The constitutional reasonableness analysis involves the following factors: (1) the burden on the Roche defendants to litigate in this Court; (2) the interests of the people of Massachusetts in resolving this dispute; (3) Amgen's interest in obtaining relief; (4) the interstate judicial system's interest in obtaining the most efficient resolution of this controversy; and (5) the shared interest of the several States in furthering fundamental substantive social policies.<sup>63</sup>

This Court's exercise of jurisdiction over the foreign Roche defendants is reasonable and fair. First, because they are foreign companies, the burden on the foreign Roche defendants of litigating this action here is no more than if the action were litigated in any other District. 64 This factor does not weigh against exercising jurisdiction here.

Second, Massachusetts has an interest in having this action resolved here. The purpose of this declaratory judgment action is to determine whether the Defendants' imminent marketing, sale, and use of PEG-EPO will infringe Amgen's patents-in-suit. Massachusetts, just like any other state in which the Roche defendants will market and sell their PEG-EPO product, has an interest in preventing infringing activity. Moreover, although it is not a Massachusetts company, Amgen has a substantial presence in Massachusetts through its research facility in Cambridge. 65 Consequently, this factor is either neutral or slightly favors jurisdiction.

Third, Amgen has a distinct interest in obtaining convenient relief in this Court. This

<sup>62</sup> Akro Corp., 45 F.3d at 1546, quoting Burger King, 471 U.S. at 477; Elecs. For Imaging, 340 F.3d at 1350.

<sup>63</sup> Inamed Corp. v. Kuzmak, 249 F.3d 1356, 1363 (Fed. Cir. 2001). See also Beverly Hills Fan, 21 F.3d at 1568 (a defendant can defeat otherwise constitutional personal jurisdiction only in "the rare situation in which the plaintiff's interest and the state's interest in adjudicating the dispute in the forum are so attenuated that they are clearly outweighed by the burden of subjecting the defendant to litigation within the forum.").

<sup>&</sup>lt;sup>64</sup> See Pritzker v. Yari, 42 F.3d 53, 62 (1st Cir. 1994) ("this factor is only meaningful where a party can demonstrate some kind of special or unusual burden").

<sup>65</sup> See Gottfried Decl., Exh. K.

Court is very familiar with Dr. Lin's inventions, the patents-in-suit, their claims, and their prosecution histories, and with some or all of the potential attacks on those patents that the Roche defendants may bring in this action. Consequently, litigating this action here is likely to be more streamlined and thus less expensive for Amgen. This factor favors jurisdiction.

Fourth, the interstate judicial system's interest in obtaining the most efficient resolution of this controversy is best satisfied in this Court, for much the same reasons as stated above for the third factor. The Roche defendants argue that this factor weighs against jurisdiction because Amgen "may still have its day in court against the U.S. Defendant, which does not dispute personal jurisdiction." This argument misses the point. Given this Court's familiarity with the patents-in-suit and the technology involved, it will be more efficient for this Court to hear this action than it would be for any other District Court to do so, thus advancing the interstate judicial system's interest in the most efficient resolution. This factor thus favors exercising jurisdiction.

Fifth, litigating this action in this Court furthers "the shared interests of the several States in furthering fundamental substantive social policies." The foreign Roche defendants argue that exercising jurisdiction over them will "have a chilling effect on future business dealings in the United States . . . by international businesses." This argument is vacuous. Foreign companies that ship experimental drugs into the United States with the knowledge that they will be administered to residents of a given State should expect to be subject to the jurisdiction of the courts of that State. Every State has an interest in protecting its residents through its judicial system against the various harms that can result from the use of such foreign-made products, especially experimental drugs. This social policy far outweighs any hypothetical "chilling" effect

<sup>&</sup>lt;sup>66</sup> Roche Switzerland Memo at p. 11.

<sup>67</sup> Burger King, 417 U.S. at 477.

<sup>&</sup>lt;sup>68</sup> Roche Switzerland Memo p. 12.

that might occur by subjecting the foreign Roche defendants to jurisdiction in this Court.

The foreign Roche defendants are both subject to service of process in Massachusetts, and the exercise of jurisdiction over them comports with the constitutional requirements of Due Process. Consequently, this Court should deny their motions to dismiss.

#### ALTERNATIVELY, AMGEN SHOULD BE GRANTED LEAVE TO TAKE III. JURISDICTIONAL DISCOVERY

In the First Circuit, a plaintiff confronted with a motion to dismiss for lack of personal jurisdiction will ordinarily be afforded the opportunity to conduct jurisdictional discovery.<sup>69</sup> As the First Circuit has said, "[w]hen the fish is identified, and the question is whether it is in the pond, we know no reason to deny a plaintiff the customary license."<sup>70</sup>

### A. The current record establishes at least a colorable case that the foreign Roche defendants are subject to personal jurisdiction

As discussed above, Amgen has identified evidence in the public domain and the Defendants have admitted facts in their motion papers that collectively establish more than a colorable case that the foreign Roche defendants are subject to specific and/or general personal jurisdiction in this Court, Amgen is thus entitled to jurisdictional discovery. 71 Consequently, if the Court believes that the facts of record are insufficient to deny the motions to dismiss, Amgen should be granted leave to take jurisdictional discovery to create a complete factual record on

<sup>&</sup>lt;sup>69</sup> See U.S. v. Swiss American Bank, Ltd., 191 F.3d 30, 45-46 (1st Cir. 1999) ("A timely and properly supported request for jurisdictional discovery merits solicitous attention."); U.S. v. Swiss American Bank, Ltd., 274 F.3d 610, 625 (1st Cir. 2001) ("We have long held that 'a diligent plaintiff who sues an out-ofstate corporation and who makes out a colorable case for the existence of in personam jurisdiction may well be entitled to a modicum of jurisdictional discovery if the corporation interposes a jurisdictional defense."") (quoting Sunview Condominium Ass'n v. Flexel Int'l, Ltd., 116 F.3d 962, 964 (1st Cir. 1997)); Boit v. Gar-Tec Prods., Inc., 967 F.2d 671, 680-81 (1st Cir. 1992) ("The Boits underestimate their own ability and burden to create a record that supports their jurisdictional allegations. The Boits could have requested that the court allow discovery on the limited issue of personal jurisdiction. . . . it might have been an abuse of discretion to deny the request.").

<sup>&</sup>lt;sup>70</sup> Surpitski v, Hughes-Keenan Corp., 362 F.2d 254, 255-256 (1st Cir. 1966).

<sup>71</sup> U.S. v. Swiss American Bank, Ltd., 274 F.3d at 625.

which this Court may consider Defendants' motions to dismiss.

### B. Limited jurisdictional discovery is justified by the questions raised (but not answered) in the foreign Roche defendants' motion papers

As discussed above, the foreign Roche defendants admit that they conduct clinical trials in Massachusetts, that they solicit and enter into licensing and research-and-development contracts with Massachusetts companies, and that hundreds of their employees regularly come to Massachusetts. But they do not disclose the nature or number of these contacts (e.g., just what these employees do in Massachusetts, how long they stay, how many companies they deal with, and the nature and number of deals that have been negotiated or consummated). They say they have no control over where their PEG-EPO goes or is used in the United States. But they do not address the relevant question of what they knew or believed about where their PEG-EPO product is transported or is being used. They assert a lack of connection between the Roche companies.<sup>72</sup> But it is entirely unclear whether Roche US is acting as an agent for either foreign Roche defendant. Amgen should be permitted to pursue the answers to these questions through limited jurisdictional discovery. For example, the regulatory documents that have already been submitted by the Defendants (e.g., the IND and BLA documents) will reveal the identity of the license-holder(s), the sponsors of the clinical trials, and the role of each Defendant in the manufacture, importation, use and sale of their PEG-EPO product.

Simply put, the foreign Roche defendants' motion papers raise more questions about their contacts with Massachusetts than they answer. Amgen should be permitted limited discovery to fill in the gaps in the factual record.

#### C. The requested discovery

In order to investigate the nature and extent of the foreign Roche defendants' contacts

<sup>&</sup>lt;sup>72</sup> Roche Switzerland Memo at p. 8-9; Roche Germany Memo at p. 8-9.

with Massachusetts and the United States as a whole, 73 Amgen seeks limited discovery from the Defendants regarding the following subjects:

- The nature and number of the foreign Roche defendants' contacts with Massachusetts residents and companies (including but not limited to the sponsorship and conduct of clinical trials);
- The nature and extent of each Defendants' involvement in and awareness of the importation and use of their PEG-EPO product in the U.S. and in Massachusetts in particular;
- Statements by Defendants in regulatory filings seeking approval to market their PEG-EPO product (including but not limited to the Defendants' IND submissions filed on December 4, 2001 and March 17, 2003, and their BLA filed on April 19, 2006) relating to their involvement in manufacturing, importation, distribution and use of PEG-EPO in Massachusetts and the U.S.:
- Defendants' solicitation of and entry into contractual relationships with Massachusetts entities (including but not limited to Genetics Institute and Fresenius Medical Care);
- The relationship of each Defendant within the worldwide Roche Group business organization as that relationship concerns Roche business activities in the U.S.;
- The financial arrangements among Defendants regarding any anticipated or actual revenues and/or profits from their activities in Massachusetts;
- Lawsuits in which Defendants have been asserted by any party to be subject to the jurisdiction of Massachusetts courts; and
- The foreign Roche defendants' contacts with the U.S. as a whole.

The proposed order submitted herewith sets out a schedule for completing this jurisdictional discovery within 75 days from the Court's ruling on Amgen's instant request.

<sup>&</sup>lt;sup>73</sup> In federal question cases such as this, if a defendant lacks sufficient contacts with a single state to meet any state's long-arm statute, Fed. R. Civ. P. 4(k)(2) allows a court to rely upon the defendant's contacts with the United States as a whole. See U.S. v. Swiss American Bank, Ltd., 116 F. Supp. 2d 217, 220 (D. Mass. 2000). The foreign Roche defendants have said nothing about their amenability to personal jurisdiction under the long-arm statute of any state other than Massachusetts, or their other contacts in the United States (save for their admitted dealings with Roche US). Amgen should be allowed discovery to pursue these facts.

## IV. CONCLUSION

For the foregoing reasons, Amgen respectfully requests that this Court (1) deny the foreign Roche defendants' motions to dismiss for lack of personal jurisdiction; or alternatively (2) enter the proposed Order submitted herewith granting Amgen leave to take jurisdictional discovery and thereafter file a supplemental opposition to those motions.

April 25, 2006

Respectfully Submitted,

AMGEN INC., By its attorneys,

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### CERTIFICATE OF SERVICE

The undersigned counsel for Plaintiff Amgen Inc. hereby certifies that this document filed through the ECF System will be sent electronically to the registered participants as identified on the Notice of Electronic Filing (NEF) and paper copies will be sent to those indicated as non-registered participants on the above date.

s/ MICHAEL R. GOTTFRIED .
MICHAEL R. GOTTFRIED (BBO#542156)

# UNITED STATES DISTRICT COURT DISTRICT OF MASSACHUSETTS

AMGEN INC.,	)
Plaintiff,	) ) Civil Action No.: 05-CV-12237 WGY
v.	)
F. HOFFMANN-LAROCHE LTD.,	)
ROCHE DIAGNOSTICS GMBH, AND	)
HOFFMANN LAROCHE INC.,	)
Defendants.	,

DECLARATION OF MICHAEL R. GOTTFRIED IN SUPPORT OF AMGEN'S OPPOSITION TO DEFENDANTS' MOTIONS TO DISMISS FOR LACK OF PERSONAL JURISDICTION (AND ALTERNATIVE REQUEST FOR LEAVE TO TAKE JURISDICTIONAL DISCOVERY)

### I, Michael R. Gottfried, declare:

- 1. I am submitting this Declaration in support of Plaintiff Amgen, Inc.'s ("Amgen") opposition to Defendants' motions to dismiss for lack of personal jurisdiction. The statements of fact made herein are based on my firsthand knowledge or belief.
- 2. I am a partner in the law firm Duane Morris LLP, and I have filed an appearance in this action as counsel for Amgen.
- 3. Attached hereto as Exhibit A is a true and correct copy of the "Family Tree" for Roche Holding AG obtained from Hoovers Online (www.hoovers.com).
- 4. Attached hereto as Exhibit B is a true and correct copy of pages from the official trial transcript in *The Trustees of Columbia University in the City of New York v. Roche Diagnostics GmbH (formerly known as Boehringer Mannheim GmbH)*, Civ. No. 93-11512 NG (D. Mass.)
- 5. Attached hereto as Exhibit C is a true and correct copy of pages from the official trial transcript in *The Trustees of Columbia University in the City of New York v. Roche Diagnostics GmbH (formerly known as Boehringer Mannheim GmbH)*, Civ. No. 93-11512 NG (D. Mass.)
- 6. Attached hereto as Exhibit D is a true and correct copy of a "Roche Corporate Media News" release entitled "Roche acquires Boehringer Mannheim Group" dated May 26, 1997.

Filed 08/27/2007

- 7. Attached hereto as Exhibit E is a true and correct copy of an excerpt from the Roche Group 2005 Annual Report pertaining to the Roche Group "Pharmaceutical Division."
- 8. Attached hereto as Exhibit F is a true and correct copy of a 2001 abstract from the "Committee For Proprietary Medicinal Products European Assessment Report (EPAR)," a committee organized by the "European Agency for the Evaluation of Medicinal Products."
- 9. Attached hereto as Exhibit G is a true and correct copy of pages printed from the National Cancer Institute website (www.cancer.gov), the Dana-Farber Cancer Institute website (www.dfci.harvard.edu), The Ohio State University Medical Center website (www.jamesline.com), St. Jude Children's Research Hospital website (www.stjude.org), and the Rare Cancer Alliance website (www.rare-cancer.org) concerning the definition of "Ro 50-3821," which is a synonym for Roche's PEG-EPO product.
- 10. Attached hereto as Exhibit H is a true and correct copy of pages printed from the Roche Group website (www.Roche-trials.com) pertaining to clinical trial protocol numbers BA16286, BA16736, BA16738, BA16739, BA16740, BA17284, and BH18387, which show seven PEG-EPO trials to have been conducted in Boston, Massachusetts and four PEG-EPO trials to have been conducted in Springfield, Massachusetts.
- 11. Attached hereto as Exhibit I is a true and correct copy of a poster presentation entitled "CERA (Continuous Erythropoiesis Receptor Activator), an innovative erythropoietic agent: dose-dependent response in phase I studies," that was presented at the American Society of Clinical Oncology 39th Annual Meeting 2003 in Chicago, Illinois.

- 12. Attached hereto as Exhibit J is a true and correct copy of the "Answer To Second Amended Complaint," dated May 7, 2001, filed by Roche Diagnostics GmbH in *The Trustees of Columbia University in the City of New York v. Roche Diagnostics GmbH (formerly known as Boehringer Mannheim GmbH)*, Civ. No. 93-11512 NG (D. Mass.)
- 13. Attached hereto as Exhibit K is a true and correct copy of a page printed from Amgen Inc.'s website (<a href="www.amgen.com">www.amgen.com</a>), describing Amgen's facility in Cambridge, Massachusetts.
- 14. Attached hereto as Exhibit L is a true and correct copy of a poster presentation entitled "Pre-clinical Pharmacokinetics and Pharmacodynamics of CERA (Continuous Erythropoiesis Receptor Activator) Indicate a Superior New Therapy for Anemia," that was presented at the American Society of Hematology 44<sup>th</sup> Annual Meeting 2002 in Philadelphia, Pennsylvania, and an abstract of a presentation, entitled "Pre-clinical and Phase I pharmacokinetic and mode-of-action studies of CERA (continuous eryhthropoiesis receptor activator), a novel erythropoietic agent with an extended serum half-life," that was presented at the American Society of Clinical Oncology 2003 national meeting in Chicago, Illinois.

I declare under penalty of perjury under the laws of the United States that the foregoing is true and correct.

Signed this 25<sup>th</sup> day of April, 2006.

s/ Michael R. Gottfried
Michael R. Gottfried (BBO#542156)

## **CERTIFICATE OF SERVICE**

I hereby certify that this document, filed through the ECF system will be sent electronically to the registered participants as identified on the Notice of electronic filing and paper copies will be sent to those indicated as non-registered participants on April 25, 2006.

/s/ Michael R. Gottfried

## EXHIBIT B

Page 714

## UNITED STATES DISTRICT COURT DISTRICT OF MASSACHUSETTS

VOLUME VII

THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK,"

Plaintiff

y. .

Civil No. 93-11512-NG

ROCHE DIAGNOSTICS GmbH, formerly known as BOEHRINGER MANNHEIM GmbH,

Defendant

Boston, Massachusetts July 16, 2001

TRANSCRIPT OF TRIAL DAY 7
BEFORE HON. NANCY GERTNER,
UNITED STATES DISTRICT JUDGE

### APPEARANCES:

For the Plaintiff:

Rodney E. Gould, Esq. RUBIN HAY & GOULD, P.C. 205 Newbury Street P.O. Box 786

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1185 Avenue of the Americas

New York, NY 10036

(Continued)

Reissue of U.S. Patent No. 6,455,275 B1 Issued: September 24, 2002 REISSUE filed June 17, 2004 Exhibit 28

CU 03729

1			• • • • • • • • • • • • • • • • • • •
1	Page 715		Page 717
1	(Continued)	1	PROCEEDINGS
2	For the Defendant: Peter F. Felfe, Esq.	2	SEVENTH DAY OF TRIAL
1	David Fox, Ph.D., Esq.	3	(The following proceedings were held in open court
3	John Bauer, Esq.	4	before the Honorable Nancy Germer, United States District
	Robert J. Koch, Esq.	-	
4	James Zubok, Esq.	5	Judge, United States District Court, District of Massachusetts,
١.	Leon Medzhibovsky, Esq. FULBRIGHT & JAWORSKI	6	at the United States Courthouse, I Courthouse Way, Boston,
5	666 Fifth Avenue	7	Massachusetts, on July 16, 2001, at 9:28 a.m.)
6	New York, NY 10103	8	THE COURT: Good morning, everyone. You can be
7.	Court Reporters: Harold M. Hagopian, RDR, CRR	9	seated.
' '	Cheryl B. Palanchian, RMR, CRR	10	Dr. Fritsch?
8	U.S. District Court		1
	1 Courthouse Way, Suite 3204	11	THE COURT: Okay, go on.
9	Boston, MA 02210	12	EDWARD FRANCIS FRITSCH, RESUMED
10	•	13	CROSS-EXAMINATION, CONTINUED
111		14	BY MR. BAUER:
13		15	Q. Good morning, Dr. Fritsch. How are you today?
14	·	\$	A. Fine, thank you.
15		17	MR. BAUER: Your Honor, if I may, I just want to let
16	,	18	you know exactly where we're going this morning. Counsel has
17			
18	,	19	read the transcript extremely carefully and would like to
19		20	basically have Dr. Fritsch present an overview of what Gl did,
21		21	when they did it, when the cell line made, when it was shipped
22		22	to BMG, so that when the stuff was bailed, so that you could
23		23	see everything, and we'll go right through that in fairly quick
24	3.3 to 2.2 to 2.	24	fashion.
	Proceedings recorded by stenotype with computer-aided transcription.	25	THE COURT: But you'll do it in the narrative form so
25	computer-stoce name up tout		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		1	, I
١.	Page 716	1	Page 718 that Mr. Zivin will be able to not in narrative form, that
<u>,</u> '	INDEX		is to say, in question and answer form.
2	170001112 13	2	·
-	WITNESSES FOR THE PLAINTIFF	3	MR. BAUER: Correct.
3	Page	4	THE COURT: Okay.
	EDWARD FRANCIS FRITSCH, CONTINUED	5	MR. BAUER; But I just wanted to tell your Honor
4	Cross-examination resumed by Mr. Bauer 717 Redirect Examination by Mr. White 760	6	where we were headed this morning.
1	Redirect Examination by Mr. White 760 Recross-examination by Mr. Bauer 812	7	THE COURT: Head away.
5	ROBERT WHITE	8	MR. BAUER: Excuse me?
"	Direct Examination by Mr. White 823	وا	1: · · · · · · · · · · · · · · · · · · ·
7		10	· · · · · · · · · · · · · · · · · · ·
8			
9	FIMILITE	11	,
1	EXHIBITS	12	
10	(All agreed upon exhibits were admitted in evidence.)	13	· · · · · · · · · · · · · · · · · · ·
11	(An agreed about evidence area annuited in expenses.)	14	
112	4	15	the isolation of the gene and ending up with the product -
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21 22		24	Q. And could you then draw with a vertical arrow down the
21 22 23	;	í	Q. And could you then draw with a vertical arrow down the

the production process efficient enough and that the quality of needed to have some of the protein to actually work with to do that technical work. So, we were shipping them the protein. the EPO that is produced is appropriate. Q. In layman's terms, does it mean it spits out enough EPO they would do the technical work, and then they figured out how to formulate it and put it in the vials. And they needed it per unit of time to make it worthwhile? A. Yeall, enough good EPO per unit of time to make it for that purpose. A. The latter pages, I guess, of this exhibit -- again, it's worthwhile. That would be the simplest way to describe it, Exhibit Number 112 -- PX-172, referred to our shipment to them Q. Dr. Fritsch, if you would, I would also like you to look of vials of the master cell bank and the master working cell at Plaintiff's Exhibit 152 and Plaintiff's Exhibit 112. bank. O. Now, I think in the transcript you said this was 10 A. Okay. 11 Q. What are those two documents, Dr. Fritsch? transferred March of '84. Is that what you meant, Dr. Fritsch? A. That the production clone -- the production clones, the 12 A. Well, the Plaintiff's Exhibit 152 is a telefax to Chugai 13 from GI indicating that we will be shipping them the master cell bank vials, were sent in March of 19 -- oh, I'm sorry, 14 . cell bank and master working cell bank files from the March of 1986. Q. Thank you, Dr. Fritsch. 15 DN2-3alpha3 cell line. Now, did Chugai -- did Gl supply Chugai with bulk EPO 16 And -for commercial sale in Japan? 17 Q. And what's the date on that? 17 A. I believe we never supplied them the bulk EPO for 18 A. ('m sorry? 19 Q. What's the date on that? commercial sale. We supplied them bulk EPO that they used for 20 A. February 24, 1986. clinical development, for preclinical development. All of the 21 Q. And why did GI ship to Chugai on February 24, 1986, an EPQ 21 bulk EPO that they actually sold commercially was manufactured 22 production clone DN2-3alpha3, 10 micromolar? by Chugai. And our contract with Chugai allowed that they could be the sole manufacturer, if necessary: 23 A. Our agreement with Chugai was that they would be able to Q. So, regardless of the relationship between GI and 24 carry out the manufacturing of EPO and that, in order to 25 Boehringer, Gl was making bulk EPO -- would make bulk EPO; accomplish that, we needed to send them the production cell Page 732 Page 734 that correct? . I line. A. Yes. We needed to make the bulk EPO in order to help Q. And this agreement was made prior to the initiation of any Chugai move the process along of its registration quickly, collaboration with Bochringer Mannheim; is that correct? A. That's correct, yes. because they still had to build a production facility before they were able to commercially manufacture it. Q. And the next document, Dr. Fritsch? A. Well, the next document, the first three pages relate to a O. Now, if you take a look at - I think it's the fourth page in, it's bearing Bates number 100793? 7 shipment of --THE COURT: I'm sorry, the next document you're A. Yes, I have it. 8 Q. What is that describing, Dr. Fritsch? 9 9 referring to is --MR. BAUER: Plaintiff's Exhibit 112, your Honor. This is a telefax that accompanied the transfer of the EPO 10 THE WITNESS: Plaintiff's Exhibit 112, yes. 11 production clone master cell bank and master working cell bark 11

THE COURT: Okay. Thank you. 12

A. The first three pages refer to a shipment of some non-GMP 13 EPO to Boehringer Mannheim, additional shipment of it, and this 14

15 is in March of 1984.

O. And what was the non-GMP EPO made from? 16

A. Yeah, this is, again, additional EPO from the DN2-3alpha3 17

18 production line.

THE COURT: And the reason why you had to send the 19 bulk EPO to both Boehringer Mannheim and to Chugai was for 20

21 their applications for the new drug IND?

THE WITNESS: Right, as part of that process. In 22

order for them to begin to understand how they should formulate 23

the drug and put it into vials for actual injection -- that

part of the process was theirs, their responsibility -- they

master working cell bank that you drew this morning on that chart? A. Yes.

Q. And could you just make a notation on the chart saying 18

Q. And is these -- the vials which are designated on documen

100793, is that the vials from the master cell bank and the

19 "shipped to Boehringer," "shipped to Chugai," and the dates?

20 A. (Complying.)

12

13

15 16

17

Q. And in these vials is just a gazillion of the DN2-3alpha3 21

22 cells that are from box number 7; is that correct?

from DN2-3alpha3 to Boehringer Mannheim.

A. Yes. Each vial contains approximately a million cells. 23

Not a gazillion, but a million, yes. 24

25 Q. Now, Dr. Fritsch, I'm going to read something to you. Yo

6 (Pages 731 to 734)

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24 given knowledge of any of the details of Gl's cloning and

25 expression of the EPO gene?

24 files.

7 (Pages 735 to 738)

25 Q. And what would the purpose have been for having these Q

conditions in place?

A. Well, if GI would want to have the cell bank cells

returned back to GI and ever use them for manufacturing, then

we would need to have all the documentation to show that the

had been received and stored in the appropriate conditions.

Q. Now, if we go to the second page, we see a number of

descriptions. And I'd like to contrast that with the document

that we looked at earlier which described what was transferred

9. to Boehringer in March of -- March 4, 1986. That is

10 Plaintiff's Exhibit Number 112.

If we take a look at Plaintiff's Exhibit 112, the 12 page bearing Bates number 100793, there are also descriptions

of viais. 13

A. Yes. That's correct. 14

Q. Excuse me? 15

16 A. That's correct. Yes.

17 Q. Could you explain to the Court what the relationship

18 between these two sets of vials is?

A. Well, the set of vials shown in Exhibit 112 on page

100793, there are two sets shown there. One set is

DN2-3alpha3, and it goes on, and the date of 12/4/85. These

are the master cell bank files. Then, below it, is a similar

description with a date of 12/18/85. These are the master 23

24 working cell bank files.

Those two sets of vials that are described there are 25

number 06387 is the source of cells from essentially all of the

cells originated and which were shipped to Boehringer?

A. That's correct. Yes.

Q. You didn't have the DNA, and then remake the cells, and

then ship those to Boehringer after box number 7 was made; is

that correct? ..

A. Right. We did not additional DNA modifications.

I should just point out that there was, in addition

to box number 7 --

10 Q. Uh-huh.

11 A. -- the right arm of that chart refers to an additional.

amplification that had already taken place, and cloning of

cells from that. And some of those cells are also shown here

that were shipped to Bochringer Mannhoim.

Q. Now, in terms of the overview, at Genetics Institute cells

from the master working cell bank were used to make bulk EPO;

is that correct? 17

18 A. That's correct, yes.

19 Q. And that bulk EPO was shipped to BMG in Germany, where it

was formulated and then either used for clinical trials or

21 sold; is that correct? " ~

22 A. That's correct, yes.

23 Q. The master cell bank that was -- the vials of the master

cell bank that were shipped to Boehringer in March of 1986 were

eventually used by Bochringer to make its own EPO products; is

Page 740

the same as the vials shown in Exhibit 117, on the second page where it is labeled number I and number 2. Number I refers to

the master cell bank files, number 2 to the master working cell

8

I should point out that the date at the end of number I is 12/4/87. That's a typographical error. It should have 7 been 12/4/857

THE COURT: It should be 12/4/85.

A. But other than that, those are the same cells.

Q. Now, the cells that are referenced as being bailed to

Roche, do those cells -- are those the same -- are those the

same cells as the DN2-3alpha3 clone which is referred to in box12 12

13 number 7?

14 A. Yes.

15 Q. And with respect to category number 3 in the bailed cells

16 on page 1408, is that also the same cell as the EPO production

17 cione, DN2-3alpha3?

A. Right. These are basically DN2-3alpha3 cells that have

been adapted to grow with no fetal bovine serum.

Q. So, these are not cells that were made after the cells

that were made in box number 7; is that correct?

A. No, they all came from the same - they all came from box

number 7. No additional genetic manipulations took place.

They were simply allowed to grow under different conditions.

Q. So, would it be fair to say that box number 7 in document

that correct?

A. That's correct.

Q. And when Boehringer made it's own EPO product, Boehringer

formulated that and then sold that; is that correct?

A. Yes.

Q. What is the relationship, if any, between the bulk EPO

that GI shipped to Boehringer and BMG's use of this EPO

production clone to make its own EPO? In other words, does

Bochringer need GI's bulk EPO in order to make EPO from its own

production clone? EO

A. No. Once Boehringer had the production clone and followed 11

the same steps that Genetics Institute had used to make bulk

EPO, it made bulk EPO on its own and no longer required GI to

make bulk EPO for Boehringer.

O. Now, when the bulk EPO goes over to Bochringer, it's

formulated and then moved to the end of its life span, so to 16

17 speak?

25

18 A. Right.

19 Q. Goes into a human?

20 A. It's formulated and sent to pharmacies and -

21 Q. The bulk EPO does not replicate itself? It's not like the

22 cell line that keeps spitting out the EPO; is that correct?

23 A. That's correct. The bulk EPO is the end product of the

expression and purification. 24

THE COURT: When you said BMG had the production

8 (Pages 739 to 742)

Page 742

9 (Pages 743 to 746)

A. Yes, I believe that's correct. Yes.

supply Chugai with commercial material?

Q. Now, isn't it true that there was no such obligation to

A. Uhm, I'd have to look in the wording of the - how the

right or the obligation, possibility of supplying Chugai

original contract was worded. Initially, we were - we had the

20

Page 78 Page 779 clinical mals and for its commercial production and sale, commercial material. I think as the years went on, it was were made by Chugai; correct? clear that Chugai wanted to make their own commercial materia A. All the bulk EPO was made by Chugai, yes. The bulk EPO O. Well, you -that we supplied them was used for other purposes prior to A. So in order to develop the product, initially GI was to be approval: manufacturing it. Q. Well, do you recall Judge Germer asking you a question Q. Well, you have there the contracts with Chugai, the June 7 about whether you were going to make EPO for Chugai and '84 and November '85 contracts; correct? 8 answering, We already were required to make it for Chugai, our A. Yeah. Could you tell me which exhibit again? 9 other partner? Do you recall that testimony? Q. Let me just find the number for you, sir. 142. 10 Can you tell me where in the June 1984 contract 10 A. Yeah, that's correct. there's an obligation for GI to manufacture commercial EPO for 11 Q. Isn't that testimony incorrect, sir? 11 12 A. Ah, no. It's not incorrect. I mean, we were required to Chugai? 12 13 make EPO for Chugai. We had made clinical trial material EPO 13 (Pause in proceedings.) 14 for Chugai, but they later decided that they should -- they MR. BAUER: Your Honor, this is, I think, over if 14 would prefer to use EPO from their facility for their clinical hundred-page document. We may need to take a break for 16 trials. So that the material that we made for them, you know, Dr. Fritsch to go through the entire document to see if he can was part of our obligation to them, they decided not to use and 17 find what he's looking for, plus it may be an interpretation of 18 they decided to use the material they made. 18 a legal clause, I'm not sure. Q. So - so it isn't true that if Boehringer Mannheim had 19 MR. WHITE: Dr. Fritsch has been testifying about the wanted commercial product from GI, that GI would have been obligations they had under the contracts. A moment ago he said 20 making it anyway for Chugai; that isn't true, is it? he thought they were obligated under these contracts to A. Well, when you say "commercial product," at the time when 22 manufacture the erythropoietin for Chugai. I am asking him if we, uhm, shipped the vials to Boehringer, at the time we 23 he can point out where in the contracts. manufactured the first clinical material for Bochringer, we 24 THE COURT: I know, that's true. You have no were also doing that for Chugai. That was the material that 25 objection to him having an opportunity to read it? Page 780 Page 782 they were going to use in their clinical studies. By the time 1 MR. WHITE: Absolutely not, your Honor. Bochringer was requiring material for commercial sale, uhm, and THE COURT: Okay. We will take a short break to give Chugai, I believe, already had their manufacturing facility in the doctor an opportunity to read the document. place and was manufacturing what would be their material for And also while we're - let me ask about another question. I'm sorry that my questions come up in inopportune 5 commercial sale. But at the time we're talking about in late 1985, times, but I believe in our findings on partial summary early 1986, utim, that was not yet in place with Chugai. So we judgment, there was a March '88 EPO, bulk EPO -- is that 7 right? -- a March '88 bulk EPO transfer? were doing it for both parmers. Q. Well, isn't it true that in October of 1985 that GI MR. BAUER: In January 1989 there was a supply already had a contract with Boehringer Mannheim to manufacture10 agreement between Boehringer Mannheim and Gl. 10 EPO which would be commercially sold? THE COURT: And was bulk EPO transferred after that? 11 A. Ah, I believe in the original R & D license agreement MR. BAUER: What happened was in the '85 agreement, 12 we've had with them, we did specify that GI had the right to as Dr. Fritsch testified, GI was to supply the beginning number 13 or the obligation to manufacture commercial material for. of years and eventually it phased out. The '88 agreement Boehringer, most of it in material in the beginning, and then supplemented that, flushed it out, and that was where the 15 as the years went on, uhm, the proportion of material that was parties agreed that GI would supply 130 grams of bulk EPO. Arkit 16 needed, uhm, reduced at GI and increased at Boehringer. then that was supplied. 17 Q. So there was an obligation for GI to supply Boehringer THE COURT: That was supplied in January of '89? 18 Mannheim with commercial material; correct?

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23

24

call it?

18 (Pages 779 to 782)

MR, BAUER: I'm not exactly sure when the first shipment, ah, it may have been prior to that. There may have

THE COURT: So did that involve a production process

been shipments in late '88. But that's the two agreements.

again, in other words, of the taking the master working cell

bank, taking a vial out and putting it in the beer vat, as we

Page 795 MR. WHITE: I'm asking him if he knows whether or not and time-consuming; correct? A. Yes, that's correct. 2 Boehringer Mannheim paid Gl. THE COURT: But are you asking him to tell you the Q. And it's dependent upon using a certain manufacturing 3 process to make the product; correct? figures on the invoice amount of bulk EPO? MR. WHITE: The number's been agreed upon. There's no dispute about the number, I'm asking him if he knows whether Q. And it's dependent, in this case, erythropoietin case, on 6 using these master cells; isn't that correct? this number was paid. " THE WITNESS: Uhm, well, yes I'm aware that A. For erythropoietin, yes, it's using those master cell bank 8 Boehringer paid GI for the bulk EPO shipments. I can't specify cells; correct. or testify to any of the specifics, but --10 O. That's the basis for approvals by the various governments, that one use these master cell bank cells to make the 11 BY MR. WHITE: commercial product; correct? 12 Q. Right. .. THE COURT: But this is an agreed-upon exhibit with a A. Ah, well, at least within the current products that are 13 14 total 39,758,300? approved; yes. Q. Now, erythropoietin's not a commodity product, is it? 15 MR. WHITE: Yes, your Honor. 15 A. By a "commodity," you mean can be made by any of a numbe THE COURT: Okay. 16 16 17 BY MR. WHITE: 17 of manufacturers? Q. Correct. Q. Now, in addition to what's listed on this exhibit, isn't 18 A. That's correct, it is not. it true that GI supplied Boehringer Mannheim with 19 erythropoietin made by the DN2-3alpha3 10 micromolar 20 O: It's not a commodity, is it? A. Not at this point in time, no. methotrexate in November of 1985? 21 22 Q. Now, several times a little while ago you referred to the A. Well, I think in November 1985 we shipped them non-GMP cells in the master cell bank and the master working cell bank material from that cell line; correct. . as being genetically identical to the DN2-3alpha3 10 micromolar 24 Q. Right. And that was a benchmark of the October 1985 methotrexate cells that were available in 1985. 25 Bochringer Mannheim contract to do so, wasn't it? Page 796 Page 798 Do you recall that testimony? 1 A. Ah, yes, A. Yes. Q. And there was a payment for that non-GMP erythropoietin d 2. \$500,000; correct? O. And there's a reason they're genetically identical, is 3 because they're all made using the same cotransformation A. Yes. followed by amplification steps? Q. That's an additional \$500,000 not listed on Exhibit 267; A. Well, they're genetically identical because the cells that correct? are used for all subsequent uses are derived from the same, A. Ah, I believe that's correct; yes. uhm, set of cells that had gone through that process. They Q. Right. Now, there's another benchmark in the October 1995 contract which was to supply 400 grams of crythropoietin to don't become genetically identical by repeating that process. It is the output of that product that is what becomes the term Bothringer Mannheim; correct? 10 11 A. I can't testify to the number, but 400 grams or 400 genetically identical. 12 milligrams, I don't remember which, but -12 Q. Now, I'd like to ask you if you can look at this 13 Q. Actually, I believe you're correct that it was milligrams. Plaintiff's Exhibit 267. 13 J4 A. Okay. A. Okay. 15 Q. Now, this refers to shipments of bulk EPO from GI to 15 Q. And that was for the clinical trials that Boehringer. 16 Boehringer Mannheim; correct? 16 Mannheim was going to conduct; correct? A. That's correct, yes. 17 A. Ah, yes. Q. So were there continuous shipments made of bulk drug from 18 Q. And that 400 milligrams of erythropoietin was shipped in GI to Bochringer beginning in '87 and continuing through 1991' 1986; correct? A. Ah, yes. That's what the document indicates; that's A. Ah, yeah. I believe it was shipped late 1986. Yes. 20 Q. And for that material, Boehringer Mannheim paid GI 22 \$1 million; correct? Q. Well, did Boehringer Mannheim pay Gl approximately A. If that's what the benchmark called for then, yes, \$40 million for that bulk drug? 24 MR. BAUER: Objection; lack of foundation. 24 Q. And again, that number is not included in this exhibit, 25 THE COURT: Are you simply -25 Plaintiff's Exhibit 267: correct?

producing and storing a normal production -- a routine

production source as a process. I mean, the clear -- there's

golden egg is the 10 micromolar methotrexate cell line. And

the master cell bank, the master working cell bank are simply

no question in my mind that the clear goose that laid the

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A. Ah, no. I have no idea why this exhibit, in particular, sort of practical manifestations of turning that cell line into what the question was when it was put together, but that is not a commercial reality. 2 2 3 But the clear goose is the DN2-3alpha3 10 micromolar 3 included in here; correct. Q. Now, in addition to the payments that we just were 4 discussing, it's true, is it not, that Boehringer Mannheim also 5 'Q. That's the one that doesn't grow in suspension; correct? A. Yeah. It doesn't grow in suspension, it does grow in paid Genetics Institute royalties when it resold the erythropoietin; isn't that correct? suspension, there are -- it is the clear -- the clear source of A. Yes, that's correct. EPO. And the ability or not to grow in suspension are, again, In an amount of approximately \$120 million; correct? sort of practical decisions that one makes as far as how one A. Uhm, I can't testify to the specific amount. manufactures it. 10 Q. Well, isn't that either the mother or the grandmother of Do you know --11 11 12 A. Total. I mean, if you're looking at over the total number the call that was actually used to produce the erythropoietin? 12 of years it's been sold, I don't know what the exact total A. Uhm, no. I mean, the cell is the same cell, okay. You 13 haven't changed the cell in going from DN2-3alpha3 10 number is. 14 Q. Do you know whether it was over a hundred million dollars? micromolar methotrexate. You keep the same -- the cell's the 35 15 A. I believe it's over a hundred million dollars. same the whole way through. It's simply; you know, under which 16 17 Q. And this is dollars in addition to the dollars we've just conditions that cell will grow and how you have stored it 17 18 been discussing, the 49 million, the 1 million, the 500,000; 18 19 So I don't -- my terms, okay, I would not say that correct? 19 20 the 10 micromolar methorrexate is the mother or grandmother or A. That's correct; yes. 20 Q. Now, for all of the EPO for which Boehringer Mannheim pair 21 whatever of the production clone. It is the production clone. 21 GI, except for that first shipment of non-GMP EPO, all of it 22 Q: Now, the regulatory authorities that regulate the sale of 22 was made using the master working cell bank; correct? 23 the product, however, they would not permit the product to be 23 A. Well, I -- I do believe that the very first shipment that 24 made using this cell line, the one that doesn't grow in occurred in 1986 used the master cell bank. We ended up, the 25 suspension, they require that it be made using the cells that, Page 800 Page 802 initial production campaign that we did, we used the master are made in cell suspension; isn't that true? 1 cell bank. And then subsequent campaigns used the master " A: Well, they require it to be made using cells from that 2 master working cell bank. That is true: And that's because working cell bank. 3 that master working cell bank was derived from the DN2-3alpha3 Q. Okay. So again, let me restate the question: Except for that first shipment of non-GMP material for which there was a and under conditions in which they feel is the appropriate way, and we feel is the appropriate way to -- to store such valuable payment of \$500,000, all of the erythropoietin that was 6 purchased by Boehringer Mannheim, for which Boehringer Mannheim? production clones. paid GI, was made by either the master cell bank or the master Q. Now, I'd, like to ask, if you would, to look at Plaintiff's Exhibit 141. working cell bank; isn't that true? 10 A. Okav. A. Yeah, I believe that's conect. Yes. Q. So again, all the -- but in the commercial erythropoietin 11 Q. You recall testifying last week that this is a description that was sold by Boehringer Mannheim, that all came from the 12 of the plan to make crythropoietin, and there was a blowup of master working cell bank; correct? 13 page 2 of the plan? 13 14 A. That's correct; yes. A. Ah, yes. Q. Right. So if there's a goose that lays a golden egg, it's 15 Q. Right. Do you recall testifying that this plan was given 15 the master working cell bank, isn't it? to Chugai and other potential partners? 16 A. Ah, no, not at all. I mean --17 A. Ah, yes. 17 Q. Well, isn't that the source of all the erythropoietin 18 Q. Isn't it true that it was given to Boehringer Mannheim? 18 that's been sold throughout the world by Boehringer Mannheim? A. I believe it was given to Boehringer Mannheim; yes. 19 A. Right. But that's just sort of the convenient way of 20 Q. Right. This is the plan that you testified provides all 20

22

cell line; isn't that true?

23 (Pages 799 to 802)

the information about how to make the crythropoietin-producing

A. Yeah. The plan described that we were using - we were

24 planning on using a CHO DHFR-negative cell line as the host,

25 that was transfected with EPO genes, and it would undergo

25

document.

25

26 (Pages 811 to 814)

Q. Now, if we go back to this - the sets of figures, there's